

Red onion dye could be the missing ingredient required to bolster ultraviolet (UV) protection for solar cells, scientists say.

Most photovoltaic modules on the market, based on crystalline silicon, appear dark blue or black. Their color depends largely on the crystalline structure of this semiconductor (which in ...

By using panels that mimic the colours and finishes of traditional roofing materials, solar energy can be integrated while respecting the historic aesthetics of the building.

Theoretically, dyes and pigments can change the color of solar PV panels, but this substantially compromises their power generation efficiency.

By spectrally modifying photovoltaic (PV) modules through integrating a colouring layer atop high-efficiency solar cells, aesthetic appeal can blend with high power conversion efficiency,...

Coloring photovoltaic panels isn't as simple as spraying them with Rust-Oleum. It's more like trying to bake a perfect soufflé; while juggling chainsaws - possible but requiring precision.

Yes, solar panels can come in different colors, although black and blue are the most common due to their high efficiency. Colored solar panels are now available, offering a wider range of options for ...

If you think solar is still too expensive, here's how to get more bang for your solar-cell buck. Take a small solar cell, and slice it into thin slivers. Wrap the slivers around the edges of a slab ...

Finding the right dyes for a new type of solar cell can be challenging, but this study used supercomputers to speed up the process.

In this review, we will discuss the current state-of-the-art in the design, synthesis, and application of organic dyes as sensitizers for indoor DSSCs, focusing on the most recent results.

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