Latest solar cell

Commercial silicon-based solar cells have made significant improvements in efficiency over the past decade, increasing from around 15% efficiency in 2015 to just shy of 25% in 2025.

Explore the significant advancements in solar panel efficiency breakthroughs from 2020, focusing on perovskite and multijunction solar cells that could greatly impact energy generation. The ...

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Although clear solar panels are less efficient than monocrystalline and polycrystalline solar cells, there are many potential applications due to their functionality, such as the windshields on cars, the glass in high-rises, and ...

The International Renewable Energy Agency"s latest report finds little change in the global average levelized cost of electricity for utility-scale solar plants year-on-year, while the global average total installed cost of utility-scale ...

In a new scientific paper published in <i>nature</i>, the Chinese manufacturer presented a new tandem perovskite-silicon solar cell based on a bottom cell with a heterojunction design. It also ...

Reliance Industries Ltd (RIL) is preparing to begin production at its solar cell manufacturing facility in the next quarter. The move marks a key milestone in the company"s strategy to build a fully ...

Did you know that some of the latest solar panel technology can now capture sunlight even on cloudy days? Thanks to innovations like perovskite solar cells, which are lighter, cheaper, and ...

Three years after the launch of Nebraska"s largest solar farm in Norfolk, the facility has made significant strides in renewable energy production while ensuring sustainability for the local ...

The discovery of self-assembled molecular layer (SAML) containing anchoring groups such as COOH and PO3H as efficient hole-selective materials (HSMs) in p-i-n perovskite solar cells ...

Exciton fission in tetracene is coupled to silicon solar cells, enhancing the efficiency of the cells by generating more than one electron per photon in the blue-green spectrum. A thin layer of zinc phthalocyanine ...

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