

New material for solar power generation



Overview

Improvements in cell performance, the use of novel materials like perovskites, and flexible, adaptable designs are fundamentally transforming how solar energy is generated and deployed. GreenLancer has worked alongside thousands of solar contractors since 2013, observing these breakthroughs. At its core, a solar panel uses photovoltaic (PV) cells to convert sunlight into electricity. In a new paper published February 26 in the journal Nature Energy, a University of Colorado Boulder researcher and his international collaborators unveiled an.

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Emerging Active Materials for Solar Cells: Progress and Prospects

To facilitate a broad transition to renewable energy, it is essential to actively explore various emerging materials for highly efficient and cost-effective solar cells. With the recent advances ...

Super-efficient solar cells: 10 Breakthrough ...

Solar cells that combine traditional silicon with cutting-edge perovskites could push the efficiency of solar panels to new heights.



Solar Panel Technology 2026: Powerful Breakthroughs

Solar energy is no longer just panels bolted to a roof or field. In 2026, new solar panel technology is driving dramatic improvements in how we capture, store, and use sunlight. Ongoing ...

AI Cracks the Code for the Next Generation of Solar Power

Researchers at Chalmers University of Technology in Sweden have recently made progress in tackling one of the most promising yet puzzling options: halide perovskites. By combining ...



Carbon nanotubes could power a new generation of flexible solar panels

The team suggests that replacing the ITO--one of the most fragile and expensive materials in photovoltaics--with single-walled carbon nanotubes (SWCNTs) could take perovskite ...

Emerging innovations in solar photovoltaic (PV) technologies: The

In recent years, solar PV technologies have witnessed transformative innovations, particularly in emerging areas like perovskite solar cells (PSCs), organic photovoltaics (OPVs), ...



The best new solar panel technology [Top 9 in 2025]

We explore the nine most exciting developments in the solar industry in 2025, from indoor solar panels to 'two-for-one' fission.



An Overview of Materials Used in Solar and Wind Power Technologies

Studies have focused on solar energy for power generation, encompassing photovoltaic and solar thermal technologies. For example, Dada et al. [11] provided a comprehensive summary of ...



7 New Solar Panel Technology Trends for 2026

Solar panel technology advances include greater solar cell efficiency and the use of new and more abundant solar panel materials.

Researchers take major step toward developing next-generation solar

Engineers have discovered a new way to manufacture solar cells using perovskite semiconductors. It could lead to lower-cost, more efficient systems for powering homes, cars, boats ...



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