

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

An international team of researchers led by King Abdullah University of Science and Technology (KAUST) in Saudi Arabia has developed a new acrylate-based composite material that ...

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 ...

Solar power is no longer inching forward, it is compounding. In laboratories and early commercial lines, scientists are stacking new materials, coatings, and designs that push panels far beyond ...

Understanding the raw materials in solar panels empowers you to make smarter decisions about your renewable energy investment. From traditional silicon cells to emerging ...

While silicon has been the go-to material for decades, researchers are now exploring new materials in solar panel manufacturing that promise higher efficiency, greater flexibility, and lower production costs.

Discover the latest advancements in next-gen solar panels, including high-efficiency materials like perovskite, quantum dots, and tandem cells. Explore innovative designs such as bifacial, ...

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

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

It's here where UK firm Oxford PV is producing commercial solar cells using perovskites: cheap, abundant photovoltaic (PV) materials that some have hailed as the future of green energy.

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