

Scientists make their own solar power

A space solar power prototype that was launched into orbit in January is operational and has demonstrated its ability to wirelessly transmit power in space and to beam detectable power to ...

Turning sunlight directly into fuel has come closer to reality after scientists developed a molecule that can hold enough energy to mimic the way plants capture light.

Solar power is quite possibly the energy source of the future, and in the field's most futuristic breakthrough yet, scientists have just figured out how to beam solar power from outer...

Chinese scientists have developed an artificial leaf that can track the sun's movement, mimicking real plant behavior. The artificial leaf combines flexible solar-powered electrodes with a ...

By manipulating the quantum fabric of materials to create new kinds of photoelectric responses, scientists are redefining what solar power can be. They're no longer just absorbing ...

Oxford, 9 August 2024, Scientists at Oxford University Physics Department have developed a revolutionary approach which could generate increasing amounts of solar electricity without the need ...

Australian researchers have built a solar cell that could redefine how efficiently homes and businesses capture sunlight and how long those systems can last.

That's when scientists at Bell Labs used an abundant material called silicon to create the first solar cell that achieved 6% efficiency. Solar panels today use this same basic design, with ...

This breakthrough means that it might be possible to fabricate solar cells from a single, low-cost, lightweight material. The discovery carries profound historical significance. The paper's ...

Researchers discovered a new way organic molecules can mimic the quantum mechanics of inorganic materials, turning light into electricity with extraordinary efficiency. This ...



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