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Title: New solar material generates electricity on its own

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This breakthrough answers a long-standing challenge in materials science -> creating a single-component organic solar cell that can independently generate electrical charges without ...

The technology combines silicon, the material currently used in solar photovoltaics (PV) in panels across the world, with perovskite materials to massively increase the efficiency of solar...

Researchers at University College London have developed a new type of solar cell capable of efficiently generating power from indoor light, a breakthrough that could reduce reliance on...

Solar power has long been constrained by a supposedly unbreakable ceiling on how much sunlight a panel can turn into electricity. That barrier is now cracking as a new class of solar...

Scientists have invented a new kind of solar panel capable of harvesting energy from indoor fluorescent lights. The next-generation solar cells were created using the so-called "miracle..."

Lightweight, flexible solar energy systems are now achievable because of the work being done by UK-based Power Roll. Power Roll has worked on an innovative solar film since 2012 to ...

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

A new thermoelectric device boosts the electricity generation capability of a little-known solar technology by 15 times. Instead of relying on conventional solar cells, it pulls electricity straight ...

Researchers at the Massachusetts Institute of Technology (MIT) have taken a revolutionary step forward in renewable energy technology. They've developed a super lightweight, ...



New solar material generates electricity on its own

To address this, researchers from Glasgow University have developed an energy-generating e-skin made out of miniaturized solar cells, without dedicated touch sensors.

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