

European Solar Energy Storage

A solar cell that does double duty for renewable energy



Overview

In the quest for abundant, renewable alternatives to fossil fuels, scientists have sought to harvest the sun's energy through "water splitting," an artificial photosynthesis technique that uses sunlight to generate hydrogen fuel from water.

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Researchers at the Department of Energy's Lawrence Berkeley National Laboratory and the Joint Center for Artificial Photosynthesis, a DOE Energy Innovation Hub, have developed an artificial photosynthesis device called a "hybrid photoelectrochemical and voltaic (HPEV) cell" that turns sunlight and.

The HPEV cell's extra back outlet allows the current to be split into two, so that one part of the current contributes to solar fuels generation, and the rest can be extracted as electrical power. Credit: Berkeley Lab, JCAP In the quest for abundant, renewable alternatives to fossil fuels.

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Solar Does Double Duty

Transparent prisms direct solar radiation to the PV cells for energy capture, while preserving views to the exterior. Wiring and voltage output are similar to those for standard ...

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Scientists Invent New Double-Sided Solar Panel that ...

A team of scientists have invented a new double-sided solar panel that is capable of increasing efficiency by 20%. The design allows solar energy to be captured from both sides, with the back panel achieving an efficiency of 91-93% of the ...

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Solar Does Double Duty

Solar panels aren't just for rooftops anymore. They are starting to pop up in places--windows, curtainwalls, canopies, and skylights--where they do double duty.



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Researchers develop an artificial photosynthesis system that generates hydrogen fuel and electricity at the same time In the quest for abundant, renewable alternatives ...

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Photovoltaics and electricity

Photovoltaic cells convert sunlight into electricity A photovoltaic (PV) cell, commonly called a solar cell, is a nonmechanical device that converts sunlight directly into ...



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Berkeley Lab researchers have developed a device that turns sunlight and water into two types of energy - hydrogen fuel and electricity.



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A solar cell that does double duty for renewable energy October 29, 2018, Lawrence Berkeley National Laboratory The HPEV cell's extra back outlet allows the current to ...

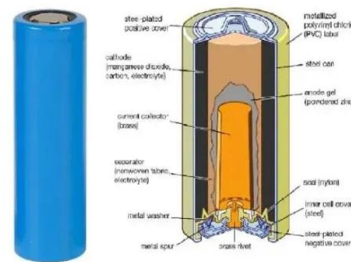


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In summary, photovoltaic (PV) cells are integral components of solar technology, facilitating the transformation of solar energy into electrical energy, thereby contributing to the ...



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