Espay Solar Energy S.L.

The magical black technology of solar power generation

Overview

Scientists from the University of Rochester have invented a new 'black metal' solar thermoelectric generator (STEG) etched with femtosecond laser pulses that is 15 times more efficient than the best state-of-the-art STEGs currently available. STEG stands for solar thermoelectric generator. Credit: University of Rochester / J. Although the technology is still in the development.

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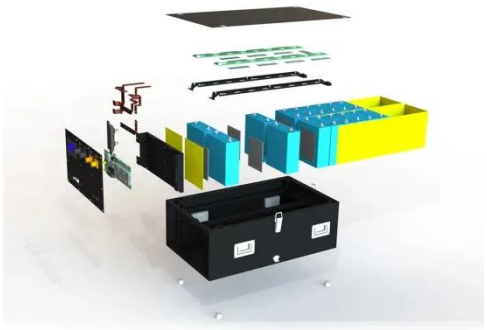

Solar Power Reimagined: New "Black Metal" Device Generates 15x ...

His lab's innovative black metal technology design helps create a STEG device 15 times more efficient than previous devices, paving the way for new renewable energy technologies.

Scientists supercharge solar power 15x with black ...

A Rochester team engineered a new type of solar thermoelectric generator that produces 15 times more power than earlier versions.

Laser-etched 'black metal' boosts solar power generation by 15x

Rochester researcher Chunlei Guo tests a solar thermoelectric generator (STEG) etched with femtosecond laser pulses to boost solar energy absorption and efficiency.

Black metal could give a heavy

boost to solar power generation

His lab's innovative black metal technology design helps create a STEG device 15 times more efficient than previous devices, paving the way for new renewable energy technologies.

Black Metal Technology Delivers 15x Boost in Solar Power Efficiency

Using his lab's black metal technology, the new design produces a STEG device that is 15 times more efficient than earlier models, opening the door to new possibilities in renewable energy.

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Over the time, new power-generating sources are added in power generation technology, from water and coal to oil and gas to the atom and, more recently, the wind and solar.

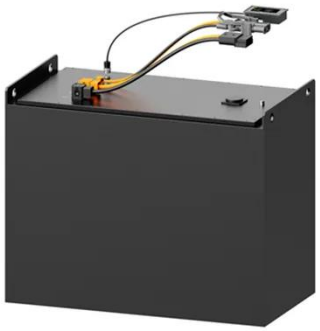
Black Metal Significantly Boosts Solar Power Generation , Technology

Discover how black metal technology and better heat management can create a solar thermoelectric generator 15

times more efficient than current devices.

Laser-blasted 'black metal' could make solar technology 15 times more

The breakthrough lies in a unique, laser-etched "black metal" developed by researchers over the past five years, which they now hope to use in solar thermoelectric generators (STEGs).



Breakthrough boosts solar thermoelectric generator ...

Discover how black metal and lasers enhance solar thermoelectric generators, improving efficiency and potential applications in clean energy.

Scientists Turn to 'Black Metal' to Make Ultra-Powerful Solar

Scientists from the University of Rochester have invented a new 'black metal' solar thermoelectric generator

(STEG) etched with femtosecond laser pulses that is 15 times more efficient ...

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