Black Solar Photovoltaic Generator

For the hot side of the device, they applied a specialized black metal technology developed in Guo"s lab, which modified ordinary tungsten to selectively absorb light at solar ...

Using a "black metal technology" developed in the lab, and laser-etching nanoscale structures into these STEGs, the team increased efficiency by up to 15 times. The results of the ...

The team has developed solar thermoelectric generators (STEGs) featuring black metal technology that boasts an impressive 15-fold increase in power generation compared to older models.

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.

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

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

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

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 have created a solar thermoelectric generator covered with black metal that is 15 times more powerful than the best alternatives.

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