

Researchers have engineered a solar thermoelectric generator that is 15 times more efficient than current state-of-the-art devices, by using “black metal” technology in combination with ...

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We review the electrical characteristics of record-efficiency cells made from 16 widely studied photovoltaic material geometries and illuminated under the standard AM1.5 solar spectrum, ...

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Solar photovoltaic technology has experienced significant growth and development in recent years, making it a significant figure in the field of renewable energy. The basic principle of solar...

In a study published in *Light: Science and Applications*, the team described their unique spectral engineering and thermal management methods to create a STEG device that generates 15 times ...

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This Review compares the state of the art of photovoltaic materials and technologies, detailing efficiency limitations and the innovations needed to overcome them.



Solar Power Generation and Materials Science

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