

For an update on what the SSPD-1 mission achieved and how it will shape future concepts for space solar-power satellites, IEEE Spectrum spoke with Ali Hajimiri, an IEEE Fellow, ...

This study provides a paradigm for an artificial intelligence-driven hybrid solar power system, including optimized solar tracking with advanced technology, advanced photovoltaic (PV)...

The State Key Laboratory of Photovoltaic Science and Technology Thanks to the new generation of i-TOPCon advanced technology upgrade, with high conversion efficiency, excellent stability and ...

Through the Space-based Solar Power Project (SSPP), a team of California Institute of Technology (Caltech) researchers is working to deploy a constellation of modular spacecraft that ...

Once considered science fiction, technology capable of collecting solar power in space and beaming it to Earth to provide a global supply of clean and affordable energy is moving closer to ...

Yet in that short time, solar power has revealed the Sun's limitless potential to power an increasingly technological society. Since the 1950s, NASA has harnessed the energy of the Sun to ...

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 ...

Herein, we propose an energy harvesting strategy to realize self-sustaining power generation by utilizing solar and ambient energy during the daytime, radiative cooling and ambient ...

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In this paper, we demonstrate a compact, chip-based device that allows for direct storage of solar energy as chemical energy that is released in the form of heat on demand and then ...

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