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Synthesis of 2D-Mesoporous-Carbon/MoS 2 Heterostructures with Well-Defined Interfaces for High-Performance Lithium-Ion Batteries. Z Li, Y Yao, S Sun, J Liang, S Hong, H Zhang, C Yang, X Zhang, ...

Flexible solar-thermoelectric generators hold great promise for efficient solar energy harvesting and power supply in wearable electronics. However, the achievement of strong photothermal and ...

Solar thermoelectric generators (STEGs) that can effectively harvest solar energy and convert it into affordable electricity, provide a promising solution for self-powered wearable ...

This project presents the design, fabrication, and performance study of a solar thermoelectric generator. Solar energy is considered one of the most effective types and sources of ...

Here we demonstrate a promising flat-panel solar thermal to electric power conversion technology based on the Seebeck effect and high thermal concentration, thus enabling wider applications.

A fully integrated flexible solar-thermoelectric generator is demonstrated utilizing Ag2Se thin films as both efficient photothermal absorber and thermoelectric generators. The device delivers ...

In this paper, in-plane thin film solar thermoelectric generator was simulated under two configurations i.e., segmented and non-segmented structures from energy, exergy and economic ...

Dive into the research topics of "High-performance flat-panel solar thermoelectric generators with high thermal concentration". Together they form a unique fingerprint.

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