

Integrating solar-driven electricity generation (SEG) including hydroelectricity, saline electricity, moisture electricity, and thermoelectricity during the evaporation process is an effective way to utilize energy ...

Inspired by natural sunflowers, we developed an advanced biomimetic phototropic solar interfacial evaporator (BPSIE) capable of omnidirectional light tracking and efficient solar energy ...

A low-cost and sustainable way of repurposing discarded pomelo peel by converting it into 3D porous carbon foam with multichannel waterways was proposed for synergetic coupling of solar ...

Carbon materials can simultaneously play the essential role of solar absorbers for energy harvesting and conductive substrates for energy generation during SSEG. In this review, energy ...

Detailed experimental investigations further reveal the important role of evaporation-driven streaming potential in power generation. This work provides a facile way for cogeneration of ...

Abstract The integration of ionic power generation with solar-driven water evaporation presents a promising solution to the critical global problems of freshwater scarcity

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In this work, we report systematic studies on improving the optical and electrical properties of four-terminal perovskite/c-Si tandem solar cells. Light harvesting power of the device is...

The elastic and broadband light-absorbing LIEHF can enhance solar evaporation and generate electricity on the basis of the streaming potential/current used for efficient solar energy ...



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