

To address these challenges, we design and fabricate a novel WEG system inspired by tree transpiration, based on the principle of charge separation induced by water passing through a ...

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photovoltaic devices, or solar cells, which change sunlight directly into electricity. However, alternative ways of harnessing the solar energy are being worked out, using methods never...

Here, we demonstrate a hybrid multi-generation photovoltaic leaf concept that employs a biomimetic transpiration structure made of eco-friendly, low-cost and widely-available materials for...

Evaporation systems with bionic structures such as roots, stems, leaves, and even animal tissues can not only promote water transport inside the absorbers but also accelerate the solar water ...

Inspired by the natural release mechanism of *Ganoderma lucidum* spores, this study designs a scalable biomimetic Gemini-structure solar-powered evaporation system (SPCZH) for ...

Despite clean energy production along with synergistic activities, BESs come with limitations of low power density, power intensity, and power generation efficiency, especially in scale-up of such systems.

Here, we developed a simple and efficient interfacial evaporation-driven nanogenerator (IENG) that achieved layered functionalization and introduced bionic light-trapping structure for light ...

In this study, a solar-driven bamboo-based interface evaporator with a bionic ripple wave surface structure is proposed and its evaporation performance has been experimentally investigated.

Here, inspired by the natural transpiration mechanism of mushrooms, we present a biomimetic mushroom-shaped solar evaporator (MSE) that synergistically integrates solar-driven ...



# Bionic materials solar power generation

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