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# Is the new solar on-site energy waterproof





## Overview

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Are flexible organic solar cells waterproof?

Waterproof flexible organic solar cells without compromising mechanical flexibility and conformability remains challenging. Here, the authors demonstrate in-situ growth of hole-transporting layer to strengthen interfacial and thermodynamic adhesion for better waterproofness in 3  $\mu\text{m}$ -thick devices.

Are Levante solar panels waterproof?

Levante, an Italian carbon fiber solar panel company, has launched new waterproof 110 W and 55 W products that are portable, lighter weight, glass-free and made with recycled carbon fiber. The CarbonCore modules were presented at JEC World, a composite materials trade show recently held in Paris.

Can ultraflexible organic photovoltaics be waterproofed?

Ultraflexible organic photovoltaics have emerged as a potential power source for wearable electronics owing to their stretchability and lightweight nature. However, waterproofing ultraflexible organic photovoltaics without compromising mechanical flexibility and conformability remains challenging.

Are waterproof organic OPVs the future of wearable electronics?

The successful implementation of waterproof organic OPVs holds promising implications for advancing self-powered wearable electronics and potentially underwater electronics for the Internet of Things in the foreseeable future. PM6, Y6, BTP-eC9, IEICO-4F, and ITCC were purchased from 1-Materials (Quebec, Canada).



## Is the new solar on-site energy waterproof



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