

# Use fruit peels to generate solar power



## Overview

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Researchers have used waste pomelo-peel biomass to power small electric devices and monitor biomechanical motions. Pomelo, a large citrus fruit widely cultivated in Southeast and East Asia, has a notably thick peel that is typically discarded, contributing to significant food waste. The method was developed by researchers at the. Postdoctoral researcher Vianney Ngoyi Kitenge transformed mangosteen peels into specialised carbon materials that he used to make supercapacitor energy storage cells. A groundbreaking study by researchers at the University of Illinois Urbana-Champaign has found a way to repurpose this agricultural waste into.

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### [From Trash to Tech: Scientists Turn Pomelo Peels into Electricity](#)

University of Illinois researchers turned waste pomelo peels into self-powered devices that generate electricity and observe body movements, providing sustainable solutions for energy ...

### [Researchers Turn Pomelo Peel Waste Into Electricity-Generating ...](#)

The study demonstrated that simply tapping these pomelo-peel-based devices with fingers could generate enough electricity to power 20 light-emitting diodes (LEDs).



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Researchers at the University of Illinois have discovered an ingenious way to transform discarded pomelo peels into devices that generate electricity and monitor body movements.



### [How fruit peels could be used to jump-start your car](#)

There has been little research into using the peels of the mangosteen fruit to create carbon. Yet, mangosteen trees grow abundantly from the east coast of South Africa to Somalia and ...



### [Scientists Turn Fruit Peel into Clean Electricity with Breakthrough Device](#)

What if your leftover fruit peels could light up your home, power a smartwatch, or even help doctors track your body movements? Scientists have done just that--by turning the thick peel of a common ...

### [Pomelo power: Scientists generate power from fruit peel using](#)

Researchers have used waste pomelo-peel biomass to power small electric devices and monitor biomechanical motions. The method was developed by researchers at the University of Illinois



### [Fruit peels could help power your smartphone's camera flash - here's ...](#)

New research has found that a key component of valuable supercapacitor energy storage devices can be made with waste peel from the mangosteen fruit.

[Fruit peels could help power your smartphone's camera flash.](#)

They act like super-fast energy sponges that can quickly soak up extra electricity when solar panels or wind turbines produce too much. They can also quickly release this energy when too little is ...



[Scientists turn pomelo peels into electricity-generating devices](#)

In a recent study, researchers at the University of Illinois Urbana-Champaign investigated methods to repurpose this pomelo peel biomass to develop tools capable of powering ...

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