

Tellurium solar glass





Overview

Can atoms be found in tellurite glass?

The research, published in Physical Review Applied, has opened up new possibilities for various applications, such as smart windows and sensors. The scientists were interested in the behavior of atoms in tellurite glass, which contains tellurium when exposed to ultrafast pulses of high-energy laser light.

How does laser light affect atoms in tellurite glass?

The scientists were interested in the behavior of atoms in tellurite glass, which contains tellurium when exposed to ultrafast pulses of high-energy laser light. They were surprised to discover that the laser created tiny crystals of tellurium and tellurium oxide, both semiconducting materials, inside the glass, precisely where the light hit.

Could nanoscale tellurium & tellurium oxide crystals generate electricity?

This curiosity led to the unexpected discovery of nanoscale tellurium and tellurium oxide crystals, both semiconducting materials, forming where the glass was exposed to the laser. The presence of semiconducting materials on a surface exposed to daylight could potentially generate electricity.

Can tellurite glass be used as a light-energy harvester?

Researchers effectively converted tellurite glass, pictured here as part of a chip, into a light-energy harvester by using femtosecond laser light. Solar cells and glass are often both made from silicon.



Tellurium solar glass



[Shining Laser Light on Glass Creates a Solar Cell](#)

Feb 12, 2024 · Solar cells and glass are often both made from silicon. However, glass made, in part, from the element tellurium (two down and two over from silicon on the periodic table) has ...

[Turning Glass Into a "Transparent" Light-Energy Harvester](#)

Jan 29, 2024 · Interested in how the atoms in the tellurite glass would reorganize when exposed to fast pulses of high energy femtosecond laser light, the scientists stumbled upon the ...



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CdTe Photovoltaic Glass Cadmium Telluride (CdTe) photovoltaic glass is a type of solar photovoltaic glass that incorporates thin-film photovoltaic technology based on the ...



[Are Smart Windows the Next Generation of Solar Energy?](#)

Jan 29, 2024 · Glass Made of Element 52, Tellurium, Is a Surprising Semiconductor
Scientists have successfully transformed glass made from tellurium (element 52) into a light-



powered ...



First Tellurium Reports that Tellurite Glass Generates ...

Feb 8, 2024 · The technology could be used to turn glass windows into power-generating solar panels. Vancouver, BC, Canada, February 8, 2024 - First Tellurium Corp. (CSE: FTEL, OTC: ...



Femtosecond-laser direct-write photoconductive patterns on tellurite glass

Jan 5, 2024 · We report the formation of arbitrary photoconductive patterns made of tellurium (Te) nanocrystals by exposing a tellurite (TeO₂-based) glass to femtosecond laser pulses. ...



Turning Glass Into a "Transparent" Light ...

Jan 29, 2024 · Interested in how the atoms in the tellurite glass would reorganize when exposed to fast pulses of high energy femtosecond laser ...





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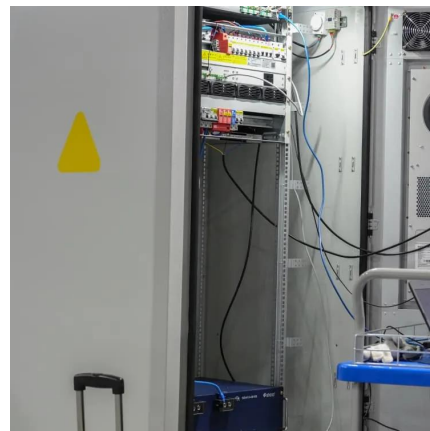
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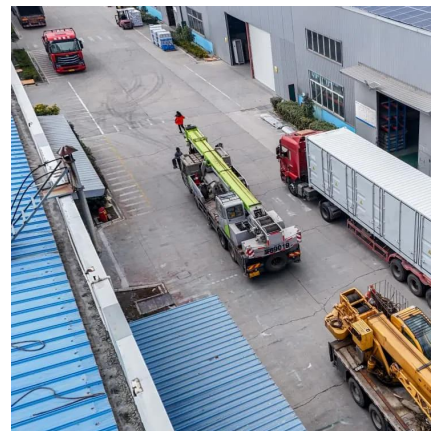


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