

# Solar glass beads





## Overview

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Could impact glass beads host solar wind-derived water on the Moon?

Analysis of lunar soils sampled by the Chang'e-5 mission suggests that impact glass beads may host a substantial inventory of solar wind-derived water on the Moon's surface.

Can impact glass beads sustain the lunar surficial water cycle?

In addition, although investigations on CE5 lunar impact glasses have confirmed the existence of solar wind-derived water and proposed that the water in impact glass beads could act as a buffer to sustain the lunar surficial water cycle (16, 18), other sources of water that may be recorded in the impact glasses have not been investigated.

Are solar wind-derived water beads a planetary resource?

Provided by the Springer Nature SharedIt content-sharing initiative Water is the one of most precious resources for planetary utilisation. Lunar nearside impact glass beads (IGBs) have been demonstrated to contain abundant solar wind-derived water (SW-H<sub>2</sub>O); however, little is known about its farside counterpart.

Can impact glass beads store water?

This study demonstrates that impact glass beads have the capacity to store significant quantities of solar wind-derived water at the surface of airless bodies, in addition to the possible presence of water ice trapped in permanently shadowed areas in polar regions.



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### [Copper Indium Disulfide Based Solar Cells on Glass Beads](#)

Glass beads of 0.2 mm diameter are coated with molybdenum, copper and indium by means of physical vapour deposition. By utilization of a temperature treatment step (around ...

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The solar glass beads produced during the pro-  
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ject were spectrally analysed for their transmis-  
has shown that technical ...

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The negative correlation between water abundance and hydrogen isotope composition reflects the fact that water in the CE5 impact glass beads comes from solar winds. ...

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#### **A solar wind-derived water reservoir on the Moon**





### hosted by impact glass

Analysis of lunar soils sampled by the Chang'e-5 mission suggests that impact glass beads may host a substantial inventory of solar wind-derived water on the Moon's surface.

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### Solar Glass

Solar glass is a specialized low-iron, tempered soda-lime silicate glass, often enhanced with an anti-reflective coating. This combination delivers ultra-high light transmittance, superior ...

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The thermal efficiency observed was 42.46% in D2 and 35.33% in D3. Moreover, the cost per liter of water produced decreased by 25% and 8.33% for the systems using gravel ...

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### [Researchers Find New Water Reservoir on ...](#)

The negative correlation between water abundance and hydrogen isotope composition reflects the fact that water in the CE5 impact glass beads comes from solar winds. The researchers also analyzed ...

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