

Solar glass beads





Overview

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-H₂O); 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.



Solar glass beads



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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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