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## Lunar glass makes moon building program feasible

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build permanent structures on the researchers wrote. the moon using lunar materials, and a recent finding has shown gins, can therefore record crucial that this idea is feasible.

lished in National Science Review. a Chinese science journal, the nation's scientists have identified tions about the moon involving natural glass fibers for the first time in lunar samples retrieved by bombardment history of the solar the Chang'e 5 robotic mission.

glass fibers has indicated that they wrote. lunar soil has good properties in terms of forming and molding glass material, "which confirms the possibility of manufacturing glass construction materials on the lunar surface", said Shen Lai- Analyzing the impact-generated quan, a researcher at the Chinese Academy of Sciences' Institute of Physics, which led the study.

Last month, Wu Weiren, an academician of the Chinese Academy lunar soil. of Engineering and a leading scientist at the China National Space Administration, said Chinese scientists plan to use 3D printing technology to turn lunar soil into construction materials and then use them to build science outposts on the moon.

ticipating in the new study, glass Dec 17, 2020, presenting the first is an important component of lunar soil. It was produced by since the Apollo era. various kinds of non-equilibrium processes including volcanic activity, meteorite bombardment two rovers on the moon. Yutu 2 of and solar wind irradiation

"These drastic processes dominate the formation and evolution of of all time and continues to send the moon, and our understanding back data and images.

of the moon strongly relies on studies of these processes. As ubiquitous products of lunar non-Chinese scientists have an equilibrium processes, glass can ambitious plan - they want to remain stable for billions of years,"

"This glass, with different oriinformation with regard to its for-According to a new study pub- mation processes over geological time scales, and provide insights into many fundamental questhe duration of volcanism, the system, the origins of lunar water The analysis of these natural and the moon's past magnetism."

> Zhao Rui, another researcher at the Chinese Academy of Sciences Institute of Physics, said that the glass substances recorded various types of meteorite impacts. glass can help scientists calculate the power of these impacts. and thus improve research on the formation and evolution of

One of the world's most notable space activities in 2020, the 23-day Chang'e 5 robotic mission was China's first lunar sample-returning mission and one of its most sophisticated and challenging space endeavors. The landmark mission brought 1,731 grams According to researchers par- of rocks and soil back to Earth on lunar substances to scientists

Before Chang'e 5, China had deployed two landing craft and the Changle 4 mission has become the longest-working lunar rover