

Abstract Phase change materials (PCM) are employed to store thermal energy in solar collectors, heat pumps, heat recovery, hot and cold storage. PCMs are encapsulated primarily in shell-and-tube, ...

Summary Overview Mission architecture Science payloads Mission stages The Chinese Lunar Exploration Program is designed to be conducted in four phases of incremental technological advancement: o The goal of the first phase was to reach lunar orbit. This was completed by Chang'e 1 in 2007 and by Chang'e 2 in 2010. o The second phase sought to land and rove on the Moon, a feat that was accomplished by Chang'e 3 in 2013 and by Chang'e 4 in 2019.

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PCM container geometry and orientations are practical passive heat transfer enhancement techniques in the long-term compared to adding nanoparticles and attaching fins. This ...

It features China's advanced innovations and discoveries, in which lunar soil samples that were collected by China's Chang'e-5 and Chang'e-6 missions from moon are on display.

The container carrying the world's first samples from the far side of the moon had been transferred from the ascender to the returner safely by 3:24 p.m., the CNSA said. This is the second ...

In today's dynamic energy landscape, harnessing sustainable power sources has become more critical than ever. Among the innovative solutions paving the way forward, solar energy ...

<p indent="0mm">>The Chang'e-5 mission of the third phase of China's Lunar Exploration Program is China's first mission to sample and return from an extraterrestrial object. The objective of the mission ...

To address challenges such as complex backgrounds, uneven lighting, and reflective surfaces, this paper introduces an alignment detection method that integrates YOLO object ...

China's Chang'e-6 touched down on the far side of the moon on Sunday morning, and will collect samples from this rarely explored terrain for the first time in human history, the China ...

Moreover, given that Chang'e-5 is the only sample returned from the mid-latitude of the Moon, it is essential to assess the water content in the bulk soil for understanding its distribution ...



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