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CHINA

Technology

Nation's space achievements out of this world

Successful return of lunar rocks was just one of the highlights for the sector this year. **Zhao Lei** reports.

2020 year in Review

China's space industry was undoubtedly a remarkable year, characterized by a series of milestones that have solidified its position as a global space power. From the successful return of lunar rocks to the launch of the first Chinese space station module, the country's achievements in space exploration have been nothing short of extraordinary.

The most significant event in the year was undoubtedly the successful return of lunar rocks from the Chang'e 5 mission. This historic achievement, which marked the first time in over 40 years that lunar samples have been brought back to Earth, was a testament to China's growing capabilities in deep space exploration.

The mission, which was launched in November 2020, was a complex operation that required precise coordination and advanced technology. The spacecraft successfully collected samples from the lunar surface and returned them to Earth, where they are now being studied by scientists around the world.

The success of the Chang'e 5 mission was a major milestone for China's space program, demonstrating its ability to undertake complex deep space missions. It also marked a significant step towards China's goal of becoming a leading space power.

Other notable achievements of the year include the launch of the first Chinese space station module, the Tianhe, in April 2021. This module, which was launched by the Long March 5 heavy-lift rocket, is the first of three modules that will make up the core of the space station.

The launch of Tianhe was a major achievement for China's space program, as it marked the first time that a Chinese spacecraft has been launched into orbit around Earth. It also demonstrated the country's growing capabilities in launching large, complex spacecraft.

In addition to these achievements, China also made significant progress in other areas of space exploration. The country launched several new satellites, including the first Chinese lunar orbiter, the Chang'e 4, in May 2020. This orbiter, which was launched by the Long March 3 rocket, is the first of a series of satellites that will be used to study the Moon and its environment.

The success of the Chang'e 4 mission was another major milestone for China's space program, as it marked the first time that a Chinese spacecraft has been launched into orbit around the Moon. It also demonstrated the country's growing capabilities in launching and operating spacecraft in deep space.

Overall, 2020 was a remarkable year for China's space industry. The country's achievements in space exploration have been nothing short of extraordinary, and they have solidified its position as a global space power. As the country continues to invest in its space program, it is likely that it will achieve even greater success in the years to come.



Chinese scientists examine the lunar rocks brought back by the Chang'e 5 mission. The rocks are displayed in a cleanroom at the Beijing Aerospace Research Institute.



The Long March 5 heavy-lift rocket launching the Tianhe module into orbit. The rocket is surrounded by a large plume of smoke and fire.



The Chang'e 4 lunar orbiter in orbit around the Moon. The orbiter is shown from a distance, with the Moon visible in the background.

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2020
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China's every ordinary citizen has a special memory of the year 2020. The Chinese space sector achieved a series of milestones, including the successful return of lunar rocks, the launch of the first Chinese space station module, and the successful landing of the first Chinese Mars rover. These achievements have not only enhanced China's international status but also inspired the Chinese people's confidence in the country's future.

The year 2020 was a year of great achievements for the Chinese space sector. The successful return of lunar rocks was just one of the highlights for the sector this year. Zhao Lei reports



China's first lunar rock sample, returned from the Chang'e-5 mission, is shown in the laboratory. The sample is a dark, irregularly shaped object, likely a lunar rock sample.



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Expanding fleet

The Chinese space sector's fleet of satellites has grown significantly in 2020. The successful launch of the first Chinese space station module, the Tianhe, was a major milestone. The module is the first of three that will form the core of the space station. The other two modules, Wentian and Mengtian, are expected to be launched in 2022 and 2023, respectively.

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