

Scientific Objective and Infrastructure of Space Exploration (1)
Scientific Objective and Infrastructure of Space Exploration (1)

Author: Mr. Qipeng Wu
Lanzhou Institute of Physics, China, wuqipeng1984@126.com

Mr. Chunyong Wang
China, wcy5229@126.com

THE METHOD OF LUNAR SAMPLE CURATION IN CHINA

Abstract

According to the development of China's space exploration, China will conduct the luna sample return mission during the third phase of China's lunar exploration, which would collect the newest lunar samples after Apollo and Luna missions. Lunar sample cruration will be of great concern for the Chinese lunar mission enguneers as well as lunar scientists. The main goal of curating lunar samples is to preserve their scientific value and keep sample contamination and alteration to minimum. Based on the experiences of lunar sample cruration in Apollo mission, the requirement of lunar sample cruration was analyzed, and the working process was planned. The methods of lunar sample processing and preservation were studied, and the lunar sample processing and storage equipment was developed, which would provide the technical basis for the development of lunar sample cruration in China.