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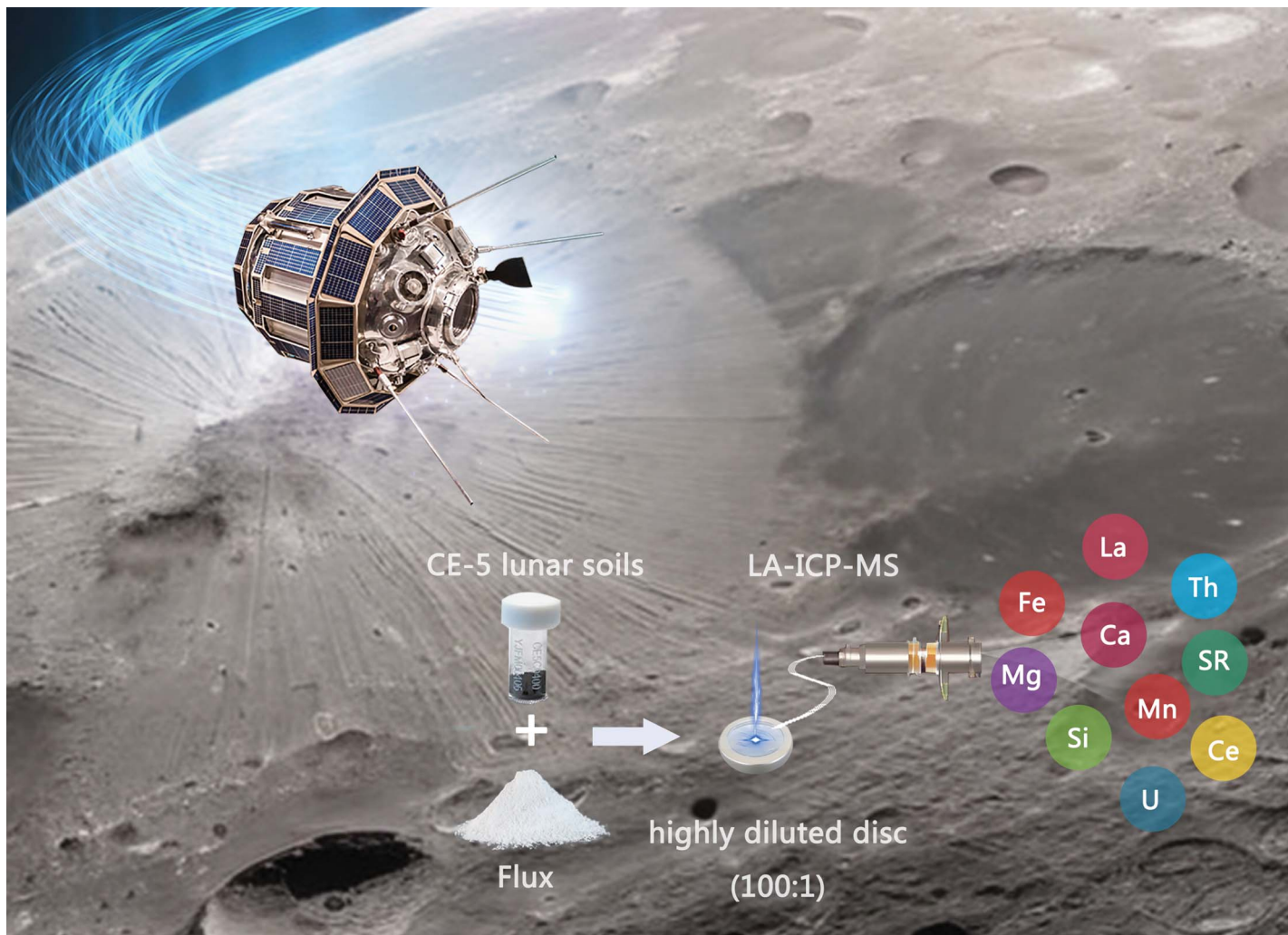
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Showcasing research on the chemical analysis of Lunar samples collected by Change'5 mission from Associate Professor Shitou Wu's group, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, P.R. China.

Chemical analysis of Chang'e-5 lunar soil using LA-ICP-MS in highly diluted fused glass discs

The bulk chemical compositions of extraterrestrial materials can provide critical information on the evolution and magmatism of planetary bodies. However, accurate measurements are challenging due to the limited sample sizes. We developed a novel LA-ICP-MS method using highly diluted fused glass discs (lithium borate flux: sample = 100: 1) for bulk chemical analysis, and applied to lunar samples collected by Chang'e-5 (CE-5) mission. Only 30 mg of sample is required for such analysis. This method will be useful for other precious extraterrestrial samples (e.g., CE-6 lunar samples).

As featured in:



See Shitou Wu *et al.*,
J. Anal. At. Spectrom., 2025, **40**, 98.