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Showcasing research from Doctor Dingshuai Xue's laboratory, Rock-mineral preparation and analysis lab, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China.

Trace element determination by femtosecond LA-ICP-MS in 10 mg extraterrestrial geological samples prepared as lithium borate glasses

Given the preciousness of the extraterrestrial sample, directly analyzing trace elements in the 10 mg XRF fusion glass is the preferred approach. However, the 35-fold dilution ratio, along with the high transmittance and unique matrix of the flux fusion glass, presents challenges for accurate composition determination. This study employs femtosecond laser technology for trace element analysis in flux fusion glass for the first time, and the results for 32 trace elements in six silicate rock reference materials are consistent with the reference values within 10% for most elements.

As featured in:



See Ding-Shuai Xue, Shun Guo *et al.*, *J. Anal. At. Spectrom.*, 2024, **39**, 2728.