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Blamey N. J. F. Parnell J. Longerich H. P.
Understanding Detection Limits in Fluid Inclusion Analysis Using an Incremental Crush Fast Scan Method for Planetary Science **[#1035]**
We propose formulae for the determination of the detection and reporting limits applied to fluid inclusion volatile analysis, adapted from LA-ICP-MS formulae, and applicable to samples of limited size that are available in planetary science studies.

Cable M. L. Stockton A. M. Mora M. F. Willis P. A.
In Situ Titan Instruments and the Case for Microfluidics-Based Sample Processing and Analysis **[#2206]**
We explore the potential for sample handling and interrogation using microfluidics as an enabling technology for an in situ Titan mission. Benefits include low mass and power, small sample size, and the capability of gas or liquid processing.

JayantaLaha Dinesh B. Selvaraj P. Subhalakshmi Krishnamoorthy
Challenges in the Design of Space Grade State of the Art Navigation Cameras for Lunar Environment **[#1789]**
This paper describes the challenges in the design of navigation cameras for the lunar rover, Chandrayaan-2. These are state-of-the art space-grade cameras designed to withstand the lunar environment. The protomodel is integrated and tested with rover.