Laboratory simulation of Martian atmospheric chemistry

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The study of trace gas chemistry on Mars is interesting as it offers clues into underlying active processes such as volcanism.

To understand observations of trace gases they must be modelled by MGCMS that are capable of predicting their seasonal and spatial distribution because of both transport and chemical processes.

Laboratory simulations of chemistry under Martian environmental conditions are needed both to improve the accuracy of current MGCMS reaction schemes but also to identify possible new reactions of interest such as ones occurring on the surface of basalt dust particles.

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References