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Identification and refinement of martian surface mineralogy using factor analysis and target transformation of near-infrared spectroscopic data

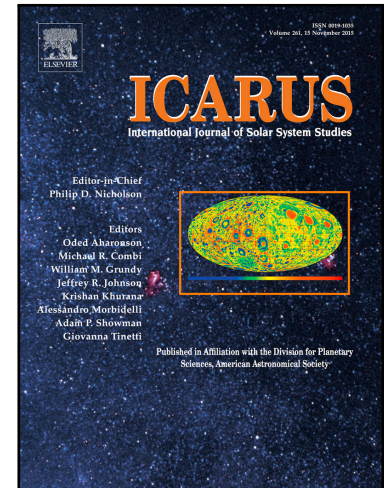
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Highlights

- Factor analysis and target transformation algorithms were applied to CRISM data
- A variety of spectral endmembers were identified using automated technique
- Previously identified carbonates were identified to show a prevalence of Mg-carbonate
- Factor analysis and target transformation algorithms were used to reduce spectral noise

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