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Characterization of terrestrial hydrothermal alteration products with mars analog instrumentation: implications for current and future rover investigations

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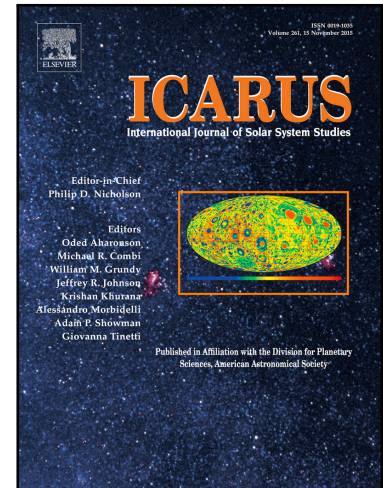
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**Highlights**

- Analyzed 100 hydrothermally altered samples from Costa Rica, Nicaragua, and Iceland
- Utilized rover-analog instrumentation: VSWIR, XRD, Raman laser spectrometer
- Several clay and SiO<sub>2</sub> deposits would be missed with rover VNIR, XRD, and/or Raman
- Geochemically-relevant materials are likely being missed by current rovers
- Future rovers should use a combination of these analyses for best results

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