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PRINT ONLY: ENVIRONMENTAL AND MATERIAL ANALOGS

Carrizo D. Sánchez-García L. Parro V. Cady S. L. Hinman N. W. et al.

[Recent Biomarker Transition in a High Altitude Hydrothermal System \(El Tatio, Chile\)](#) [#1837]

A clear trend in lipids biomarkers (i.e., fatty acids) transition environmentally controlled by water supply has been shown in El Tatio sinter geyser samples.

Kapui Zs. Kereszturi A. Kovacs I. Zanon V.

[Potential Mars Basalts Analogue in Azores Island](#) [#1501]

First report on the analysis of some basalt samples as potential Mars analogues rocks from Azores Island.

Kashyap S. Sklute E. Ross L. Emerson D. Tague T. J. Jr. et al.

[Spectroscopic Characteristics of Natural Biogenic Iron \(Oxyhydr\)oxides from Freshwater and Marine Environments](#) [#1130]

Natural iron (oxyhydr)oxide samples produced by iron oxidizing bacteria may hold spectroscopic features that can be used as biomarkers.

Kołodziejczyk A. M. Harasymczuk M. Orzechowski L. Waśniowski A. Foing B.

[Time and Light Perception in Analogs in Lunares Habitat](#) [#1862]

Lunares facility is designed to investigate optimal for physiology and health lighting conditions for future Moon and Mars human space missions.

Kołodziejczyk A. M. Harasymczuk M. Kraiński M. Orzechowski L. Waśniowski A. et al.

[Design and Operations of Environmental Analogs in Lunares Habitat](#) [#1909]

Establishing habitat Lunares was one of the fastest realization of this kind in the world. It was created to run lunar and martian environmental analogs.

Makovchuk V. Yu. Grishakina E. A. Slyuta E. N.

[Development of the Lunar Soil Imitators for Large-Scale Field Experiments](#) [#1496]

Developed lunar soil imitators are almost similar to original lunar soil and acceptable for usage in large-scale field experimental research.

Sanchez-Garcia L. Carrizo D. Fernandez-Martinez M. A. Garcia-Villadangos M. Manchado J. M. et al.

[Multianalytical Detection of Biomarkers on a 1m-Subsurface Drill of an Acidic Environment \(Rio Tinto\) with Analogies to Mars. Simulating a Future Drilling and Bioanalysis on Mars Polar Latitudes.](#) [#1967]

Multianalytical detection of biomarkers (lipids, metagenomics, immunoassay) on a 1m-deep drill on a terrestrial Mars analogue (Rio Tinto evaporitic-like site).

Sklute E. C. Kashyap S. Wang P. Tague T. T. Jr. Dyar M. D. et al.

[Effects of Surrounding Medium \(Fluid vs. Air\) on Spectral Properties of Nanophase Iron \(Oxyhydr\)oxides](#) [#1064]

Nanophase iron (oxyhydr)oxides dried and analyzed under different conditions are spectroscopically compared and found to vary in small but significant ways.

Sun Y. Li Y. L. He H. P. Tan W. Su X. L. et al.

[Western Qaidam Basin as a Martain Analog and a New Interpretation of the Formation Mechanism for Pitted Rock Observed by Viking 2](#) [#1456]

Pitted rock observed by Viking 2 on Mars may indicate low-temperature hydrothermal alteration in warm lake based on our analysis of an analogue in Qaidam Basin.

Valvur H. T. Kashyap S. Sklute E. C. Holden J. F. Wang P. et al.

[Spectroscopy of Nanophase Iron \(Oxyhydr\)oxides Bioreduced by Geobacter Metallireducens](#) [#1439]

Spectroscopy of G. metallireducens bioreduction products resulting from active growth on ferrihydrite or lepidocrocite are presented and discussed.