[809]

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Berger G. Ayang-Nzamé L.
Acidic Alteration of the JSC-1 Simulant Down to –18°C: Consequences for the Martian Alteration History **[#1976]**
The JSC-1 martian regolith simulant reacted with H_2SO_4 down to 255 K (soft ice) produced gypsum and possible dust in few days by reaction with allophanes.

Campbell J. L. King P. L. Gellert R. Pradler I. Berger J. A. et al.
Continuing Measurements of the MSL APXS Calibration Target on Mars **[#1447]**
The dust film on the vertical MSL APXS calibration target appears to have stabilized and comprised a subset of the elements in aeolian dust.

Chang J. S. VonZabern K. Rubin M. Wathore H. Matthew J. et al.
The Transfer of Energy Through Sand **[#2639]**
By placing temperature probes at different depths in sand sediment, the relationships between time and the heating and cooling of the sand were found.

Dyar M. D. Dobosh P. A. Bridges J. C. Wiens R. C. Johnson J. R.
Mineralogy at Bradbury Landing Site and Yellowknife Bay in Gale Crater, Mars, as Measured Using Cation Ratios, for Sols 13-360 **[#1788]**
This project presents compositions of minerals measured by ChemCam at the Bradbury landing site and Yellowknife Bay on Mars using cation ratios.

Hibbert R. Price M. C.
Characterisation of Raman Spectra of High Purity Olivine as a Function of Temperature and Shock History: Preparation for ExoMars **[#1350]**
An investigation of Raman spectra for olivine as a function of temperature and shock history to develop "best practice" protocals for analysis of ExoMars data.

McSween H. Y. Labotka T. C. Viviano C. E.
Metamorphism Within the Martian Crust as Constrained by Known Mars Rock Compositions **[#1284]**
Martian meteorites and rocks analyzed by rovers constrain the low-grade metamorphic mineral assemblages possible in the martian crust.

Mikouchi T. Takenouchi A.
Mineralogy and Petrology of LAR 12095 Olivine-Phyric Shergottite: A Possible Launch Pair from Mars with Dar al Gani 476 et al. and Sayh al Uhaymir 005 et al. **[#1858]**
Our mineralogical and petrological study of LAR 12095 suggests that it is a launch pair with Dar al Gani and Sayh al Uhaymir olivine-phyric shergottites.

Moyano-Cambero C. E. Trigo-Rodríguez J. M. Benito M. Mestres N. Alonso-Azcárate J. et al.
Raman Spectroscopy Study of the Carbonate Globules in Allan Hills 84001 to Better Understand Their Mineralogy **[#1844]**
A micro-Raman study of the carbonates in the martian meteorite ALH 84001, which allows us to obtain some clues about their specific mineralogy and formation.

Wu Z. C. Ling Z. C. Zhang J. Bi Y. F. Li B. et al.
The Simulated Space Weathering of Mars Rocks by Low Temperature Plasma **[#2315]**
A simulated space weathering of hydrated sulfates (gypsum, $CaSO_4.2H_2O$) using low-temperature plasma bombardment was reported.