Aarthy R. S. Sanjeevi S.

_Cosmochemistry and Spectral Analysis – Sulagiri Meteorite_ [#1882]

Sulagiri meteorite cosmochemistry spectral analysis.

Cabedo V. Trigo-Rodríguez J. M. Rimola A.

_Study of Shocked Mineral in CR2 Chondrite GRA 95229 by Raman Spectroscopy_ [#1342]

We compare Raman spectra with synthetic ones in order to assess qualitatively the degree of shock and thermal annealing experienced by GRA 95229.

Chan Q. H. S. Nakato A. Zolensky M. E. Nakamura T. Kebukawa Y. et al.

_Effects of Short-Term Thermal Alteration on Organic Matter inExperimentally-Heated Tagish Lake Observed by Raman Spectroscopy_ [#2026]

We studied the experimentally-heated Tagish Lake meteorite with Raman spectroscopy which suggest that the maturity of organic matter is time dependent.

Fisenko A. V. Verchovsky A. B. Semjonova L. F.

_Correlation Analysis of the C, N, and Noble Gases Released During Oxidation of Acid Resistant Fractions Separated from the Saratov (L4) Meteorite_ [#1280]

For study of Q-phase measured the C, N, and noble gases released during oxidation of acid resistant fractions separated from the Saratov (L4) meteorite.

Kalinina G. V. Pavlova T. A. Alexeev V. A.

_Some Features of the Ordinary Chondrite Ablation According to the Track Data_ [#1004]

The ablation of H- and L-chondrites was studied using the new track data obtained in the Laboratory of Cosmochemistry.


_Formality Time of Chelyabinsk Breccia and Its Subsequent Thermal History_ [#1567]

Ar-Ar dating of dark, light, and impact melt lithologies indicate breccia formation 1.7 ± 0.1 Ga ago and partial thermal reset 30 Ma ago.

Lavrentjeva Z. A. Lyul A. Yu.

_The Peculiarities of Chemical Composition of Nonmagnetic Grain-Sized Fractions from Pillstfer EL6 Enstatite Chondrite_ [#1038]

Based on obtained data formation EL6 enstatite chondrites from material subjected to the nebular fractionation metal-silicate and metamorphism is proposed.

Miura Y.

_Shocked Indicator of Carbon-Bearing Micro-Grains Formed on Any Meteorites_ [#3028]

Carbon-bearing micro-grains are observed on meteorites by shocked quenched solids interior which are detected as terrestrial age determination significantly.


_Northwest Africa 10769: An Ungrouped Chondrite Related to the “Supra-TFL” Chondrites_ [#2696]

A complete textural ad minerochemical description of the ungrouped chondrite NWA 10769, a meteorite related to the supra TFL chondrites, is provided.

Shornikov S. I. Yakovlev O. I. Ivanova M. A.

_A Thermodynamic Study of Inversion of MgO and SiO2 Relative Fugacity at CAI Evaporation_ [#1134]

We studied the MgO/SiO2 inversion fugacity at CAI evaporation at 2300 K using the developed semi-empirical thermodynamic model of the refractory oxide melts.
Szurgot M.  
*Mean Atomic Weight of Earth and Enstatite Chondrites* [#1130]
Mean atomic weight and Fe/Si ratio of enstatite chondrites and Earth were determined, properties of EC parent body predicted, and Earth’s EC models supported.

Tanbakouei S. Trigo-Rodríguez J. M. Llorca J. Nakamura T. Moyano-Cambero C. E.  
*Selective UV-NIR Reflectance Spectra of CM Chondrites to Identify Pristinity, Aqueous Alteration, and Mild Metamorphism in Undifferentiated Asteroids* [#2445]
Reflectance spectra of carbonaceous chondrites are usually featureless, but also contain tiny absorption lines useful to assess the nature of a C-class asteroid.