Demidova S. I.  Nazarov M. A.  Ryazantsev K. M.  Anosova M. O.  Brandstätter F. et al.


Cathodoluminescent glasses were found in Dhofar 025 lunar meteorite. They have spinel-plagioclase composition similar to that of lunar spinel anorthosites.

Hayashi Y. Ogawa Y. Hirata N. Terazono J. Demura H. et al.

*“GEKKO” for Hyperspectral Data Distribution: A New Method for Utilizing the Advantages of a Web Map Service* [#1920]

We developed a web GIS “GEKKO” (“moonlight” in Japanese) which specializes in handling hyperspectral data. We present the technical details of the system.

Huang S. Petaev M. I. Wang W. Lock S. J. Wu Z. et al.

*Lunar Origin Beyond the Hot Spot Stability Limit: Stable Isotopic Fractionation* [#2261]

We discuss forward modeling results of isotopic fractionation during the formation of the Moon after a high-energy, high-angular-momentum impact.

Korochantseva E. V. Buikin A. I. Hopp J. Korochantsev A. V. Trieloff M.

*40Ar-39Ar Dating of Lunar Meteorites Dhofar 309 and 730* [#2305]

We report a high-resolution 40Ar-39Ar study of two lunar meteorites: Dhofar 309 and 730. Thermal and irradiation histories of these samples are discussed.

Korokhin V. V. Shkuratov Y. G. Kaydash V. G. Velikodsky Yu. I. Videen G.

*A New Phase Function of the Lunar Surface Deduced from LROC WAC Photometric Measurements* [#1248]

A new empirical 3-parametric phase function is proposed for describing the phase dependence of the lunar brightness over a wide range of phase angles 1..100°.

Lena R. Wirths M. Mallama A.

*Lunar Domes to the South of Hortensius: Morphometry and Mode of Formation* [#1004]

We provide an analysis of three low domes located to the south of Hortensius crater, including morphometric and rheologic properties.


*Water in Lunar Craters from LRO Observations* [#1939]

Data gathered from different LRO instruments have been used to test various models of hydrogen distribution in the interior and exterior of large lunar craters.

Madiedo J. M. Ortiz J. L. Morales N. Cabrera-Caño J.

*Analysis of Lunar Impact Flashes Recorded During the Activity Period of the Lyrid Meteor Shower in 2013* [#1124]

Impact lunar flashes identified during the activity period of the 2013 Lyrids are analyzed in this work.

Misra S. Ray D.

*Eu Anomalies of Lunar Basalts Reflect Both Source Characters and Magmatic Fractionation* [#1153]

The Eu anomalies observed for the lunar high-Ti and low-Ti basalts indicate both their source rock characters and history of magmatic fractionation.

Phillips J. Lena R.

*Domes in Mare Insularum: Morphometry and Mode of Emplacement* [#1006]

We describe three lunar mare domes in Mare Insularum in terms of their morphometric and inferred rheologic properties and feeder dike dimensions.
Pugacheva S. G. Shevchenko V. V. Feoktistova E. A.
*The Morphological Features of the Lunar Craters with Anomalously High Content of Thorium* [#1527]
The article describes the features of the lunar craters with anomalously high content of thorium.

Pugacheva S. G. Feoktistova E. A. Shevchenko V. V.
*The Temperature Regime of NSR S3 Spot Region in the South Pole Region of the Moon* [#1882]
In this paper we investigated the temperature regime and illumination conditions in the NSR S3 spot region near south pole of the Moon.

Shkuratov Y. G. Korokhin V. V. Ivanov M. A. Kaydash V. G. Rohacheva V. V. et al.
*Properties of Dark Mantles in Lunar Crater Alphonsus Deduced from LROC WAC Photometric Measurements* [#1340]
Using LROC WAC data we map phase function parameters in the crater Alphonsus, showing the pyroclastic deposits may smooth out the preexisting surface.

Wang Y. J. Fa W. Z. Du J.
*Distribution Characteristic and Formation Mechanism of Lunar “Cold Spot” Craters in Microwave Brightness Temperature Images* [#1900]
We analyzed the distribution characteristic of the lunar cold spot craters in microwave brightness temperature image and discussed its formation mechanism.

Wirths M. Lena R. Mallama A.
*A Study About a Lunar Dome Near Hortensius: Morphometry and Mode of Formation* [#1005]
We provide an analysis of a low dome to the east of Hortensius and report its morphometric and rheologic properties.

Zagidullin A. A. Petrova N. K.
*Development on Program Code for Extraction of Physical Libration of the Moon Using the Numerical Theory Spin-Orbital Motion DE432* [#1808]
Development program of code for obtain physical libration of the Moon from the numerical theory spin-orbital motion, called DE432.