

[810]

PRINT ONLY: IMPACTS

Bender Koch C. Kasami T.

[Impactite Vesicles as Nucleation Site for Micron Sized Fe-Ni Spherules](#) [#2775]

Impact derived micron-sized spherules of Fe-Ni alloys are commonly found within the glassy parts of impactites formed in craters originating from the fall of iron meteorites.

Chang Y. Xie M. Xiao Z. Tian X.

[Estimation of Crater Degradation Rate Based on Crater Statistics](#) [#1922]

Estimation of crater degradation rate based on crater statistics.

Krauss A. Whymark A. Lange J.-M.

[Scanning Electron Microscopy of Guangdong Tektites Exhibiting Silica-Rich Glass Inclusions and Protrusions](#) [#1848]

Protrusions on the posterior of Guangdong Tektites were investigated by SEM. Inclusions/protrusions were silica-rich, indicating they were not microtektites.

Kuzmicheva M. Yu.

[Earth's Crater Magnetic Anomalies and Recent Advances in Lunar and Martian Magnetism](#) [#1592]

Impact-related demagnetization is an important process of a magnetic crustal history.

Martell J. Alwmark C. Lindgren P. Johansson L.

[Shock Metamorphic Features in Zircon Grains from the Lake Mien Impact Structure in Sweden](#) [#1418]

This is a study of zircon microtextures from the Lake Mien impact structure. Results show granular and microporous texture, probably as a consequence of shock.

Rodríguez-Tovar F. J. Ormö J. Morgan J. Gulick S. P. S. Whalen M. T. et al.

[Pre-Impact Macrobenthic Signature in the Chicxulub Area: Ichnological Record in Suevite of IODP-ICDP Expedition 364 \(Site M0077\)](#) [#1812]

Ichnological analysis of sedimentary clasts in suevite recovered at IODP/ICDP Exp. 364 has been conducted to interpret environmental context before the impact.

Roy M. Sengupta P. Mahadik P. Pandey P.

[Submicroscopic Diamond Within Carbonate Melt Globules in Impact Melt Breccia from Dhala \(Mohar\), Shivpuri District, M.P., India](#) [#1212]

MicroRaman data of spots within carbonate globules in melt breccia show characteristic diamond peaks with upshift in band positions and increase in the FWHM.

Salamunićar G.

[Automated Crater Detection from Topography of \(1\) Ceres and Creation of Global Catalogue](#) [#1639]

Automated crater detection has been used to process the digital topography of Ceres. After manual evaluation, the catalogue with 5614 craters has been created.

Shuvalov V. V. Khazins V. M.

[Numerical Model of Ionospheric Disturbances Generated by Tunguska and Chelyabinsk Impacts](#) [#1114]

The purpose of this study is to model large-scale atmospheric perturbations induced by well-known Tunguska (1908) and Chelyabinsk (2013) impacts.

Walesiak T. M.

[Initial Results of Geomagnetic Survey in Morasko Meteorite Crater Field](#) [#1644]

Morasko area presents many similarities to Campo del Cielo crater field. Recent geomagnetic survey reveals wide anomaly showing that further analogy may exist.

Whymark A.

[Further Geophysical Data in the Search for the Australasian Tektite Source Crater Location in the Song Hong — Yinggehai Basin, Gulf of Tonkin](#) [#1078]

Higher resolution gravity data and a seismic line over the NE edge of the gravity anomaly have been made available, these data may be indicative of a crater.

Winter P. M. Maindl T. I. Galiazzo M. A. Schäfer C. M.

[The Origin of Callisto's Valhalla Basin: First Results of SPH Impact Simulations and the Search for the Impactor's Origin](#) [#1519]

We explore the formation of the Valhalla Crater on Callisto focusing on the impact-induced formation process itself and the origin of the impactor.

Xiao Z.

[Search for Potential Impact Craters in China](#) [#1828]

Recent project advances in looking for potential impact craters in China are reported.

Öhman T.

[Lappajärvi Impact Structure, Finland — Triple Anniversary in 2018 and Prospects for Research and Outreach](#) [#2318]

The year 2018 marks the 160th, 50th, and 20th anniversaries of the first descriptions of the Lappajärvi impact melt rocks, PDFs, and impact diamonds, respectively.