

Thursday, July 26, 2018
POSTER SESSION II: WORKSHOP: EXPERIMENT AND MODELLING IN
INVESTIGATION OF EXTRATERRESTRIAL MATERIAL
5:30 p.m. Foyer

Osadchii E. G. Osadchii V. O.

[Electrochemical Measurements of Oxygen Fugacity of Rocks and Meteorites](#) [#6348]

In our report, we discuss the usage electrochemical method to measure oxygen fugacity of rocks and meteorites. We also give a brief comparison on the concept of intrinsic oxygen fugacity and bulk mass sample measurements.

Shilobreeva S. N.

[Surface Modification of Silicates by Ion Bombardment](#) [#6016]

We present the results of irradiation experiments aimed at simulating ionization radiation affects process.

Shornikov S. I. Yakovlev O. I.

[Thermodynamics of Complex Molecular Species in the Gas Phase over the CaO–MgO–Al₂O₃–TiO₂–SiO₂ System](#) [#6137]

Experimental data obtained by the Knudsen effusion mass spectrometry were used to analyze principal tendencies in the formation of gas phase complex oxides in dependence on temperature, melt composition, and oxygen partial pressure.

Guda L. V. Kravtsova A. N. Badyukov D. D. Trigub A. L. Soldatov A. V.

[Studing of the Tektites and Impactites Using X-Ray Absorption Spectroscopy](#) [#6159]

The coordination numbers and a tendency of the the Fe oxidation state increase in the series of the 12 tektites and impactites (aerodynamic shaped tektites, Muong-Nong, Moldavite, Irgizite, silica rich and poor Zhamanshinite) were studied by XANES.

Gritsevich M. Penttilä A. Maconi G. Helander P. Martikainen J. Markkanen J. Kassamakov I.

Blum J. Väisänen T. Puranen T. Salmi A. Muinonen K. Hægström E.

[Application of the Multiple-Scattering Modeling Pipeline for Spectroscopy, Polarimetry, and Photometry](#) [#6255]

We present application of the data-processing pipeline to analyze the reflectance spectra, photometric and polarimetric phase curves of planetary environments, described as close-packed random media. We compare modeling vs the experimental results.