

PRINT ONLY: PLANETARY ATMOSPHERES

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[Carbon-Rich Giant Planets: Atmospheric Chemistry, Thermal Inversions, and Formation Conditions](#) [#2760]

Carbon-rich planets form an exotic new class of extrasolar planets with the recent discovery of a carbon-rich atmosphere in WASP-12b. We report a detailed study of atmospheric chemistry, temperature structure, and formation of such planets.

Molina A. de Pablo M. A. Ramos M.

[Implications of MER Mini-TES Surficial and Atmospheric Temperatures Evolution During a Year on Gusev Crater, Mars](#) [#1116]

We studied the Spirit MER Mini-TES temperatures, from different azimuths, in order to take surficial and atmospheric values. A complete serial of a martian year, allow us to interpret some interesting issues about local climate and surface characteristics.

Shalygina O. S. Shalygin E. V. Korokhin V. V. Velikodsky Yu. I.

[Appearance of Linear Polarization at Polar Regions of Jupiter](#) [#2788]

The mechanism of polarization appearance at zero orbital phase angle in polar regions of Jupiter was proposed. Modeling using Monte-Carlo code and preliminary studying of influence the form of aerosol were done.