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Protosolar Disk CO-CH4 Equilibrium Chemistry

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Özet
The target of this study is analyzing chemical composition and behavior of the Protosolar Disk modeled under diverse C/O ratios from 0.1 to 10, and pressure values from 10-2 to 10-6 bar, on the basis of changes in temperature. How the C/O ratio influences general patterns of chemical functions of the disk dynamics is investigated under the equilibrium conditions. Which carbon-bearing gases come forward in terms of abundance or importance, throughout different zones of the Protosolar Disk modeled with different pressure and C/O ratios are demonstrated in the plots and discussed in detail.

Anahtar Kelimeler: protoplanetary discs, Güneş Sistemi Astronomisi

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