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Early evolution of surface environments on terrestrial planets

George L. Hashimoto[1]; Yutaka Abe[2]; Seiji Sugita[3]

[1] Kobe Univ.; [2] Earth Planetary Sci., Univ. Tokyo; [3] Dept. of Complexity Sci. & Eng., Univ. of Tokyo

Atmospheres of terrestrial planets are generated during the planet formation. The chemical composition of very early atmosphere would contain a significant amount of reducing species, such as H₂, CO, and CH₄. It is likely that the early reducing atmosphere is oxidized through hydrogen escape.