

Evaporation of forsterite in the presence of ambient gas and its application to the condensation process

Hiroko Nagahara[1], Shogo Tachibana[2], Harumi Inaba[3], Kazuhito Ozawa[4]

[1] Geol. Inst., Univ. Tokyo, [2] Earth and Planet. Sci., Univ. of Tokyo, [3] Earth Planet. Sci., Univ. Tokyo, [4] Univ. Tokyo, EPS

Evaporation of forsterite in the presence of its own vapor is experimentally studied. The condensation coefficient determined has dependence on ambient pressure (PsiO), which is fairly close to the evaporation coefficient. The results were applied to condensation and growth of forsterite grain in the solar nebula.