

## In situ Observation of Solid State Crystal Rounding at High Temperature

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A crystal surrounded by other host phases often changes its shape from angular to spherical in order to reduce its surface energy during metamorphism. A new heating stage was developed for in situ observation of solid state crystal rounding at high temperature. The stage is equipped with CO<sub>2</sub>-H<sub>2</sub> gas blender and maximum temperature is 1400C. Olivine fragments were loaded into the heating stage and annealed at 1300C lasting 5 hours. The rounding process of olivine is successfully observed.