

## In-situ observation of crystal growth from undercooled liquids using containerless technique

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We performed in-situ observation of crystal growth from the undercooled liquids of alloys and oxides using high-energy x-ray diffraction combined with the container-less technique . Using the method, we can see the various phase transformation from the undercooled liquids to the stable crystalline phases. From the observation results we discuss about the crystal growth mechanism from the undercooled liquids from the viewpoint of the correlation between liquid and crystal structures.

Keywords: crystal growth, supercooled liquids, levitation technique