Our group has confirmed that liquid caesium iodine (CsI) showed high wettability against polycrystalline UO₂ solid surface[1].

Deep understanding of the liquid CsI behaviour on polycrystalline UO₂ solid surface is beneficial to clarify the release behaviour of Cs and I from fuels.

The present study investigated the effects of solid surface for wettability of liquid CsI by using the sessile drop test with 4 types of solid samples including polycrystalline UO₂.

Fig. 1. Melting behaviour for CsI added to polycrystalline UO₂.