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Fig. S1:

We have performed the rapid solidification for Ta at a lower cooling rate 1.25×10^{11} K/s under [0, 10] GPa. In most cases, the bcc crystal is obtained, as shown in Fig. S1.

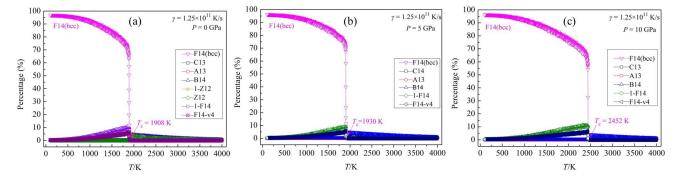


Fig. S1 the structure evolution during the rapid cooling at a cooling rate of 1.25×10¹¹ K/s under different pressures.