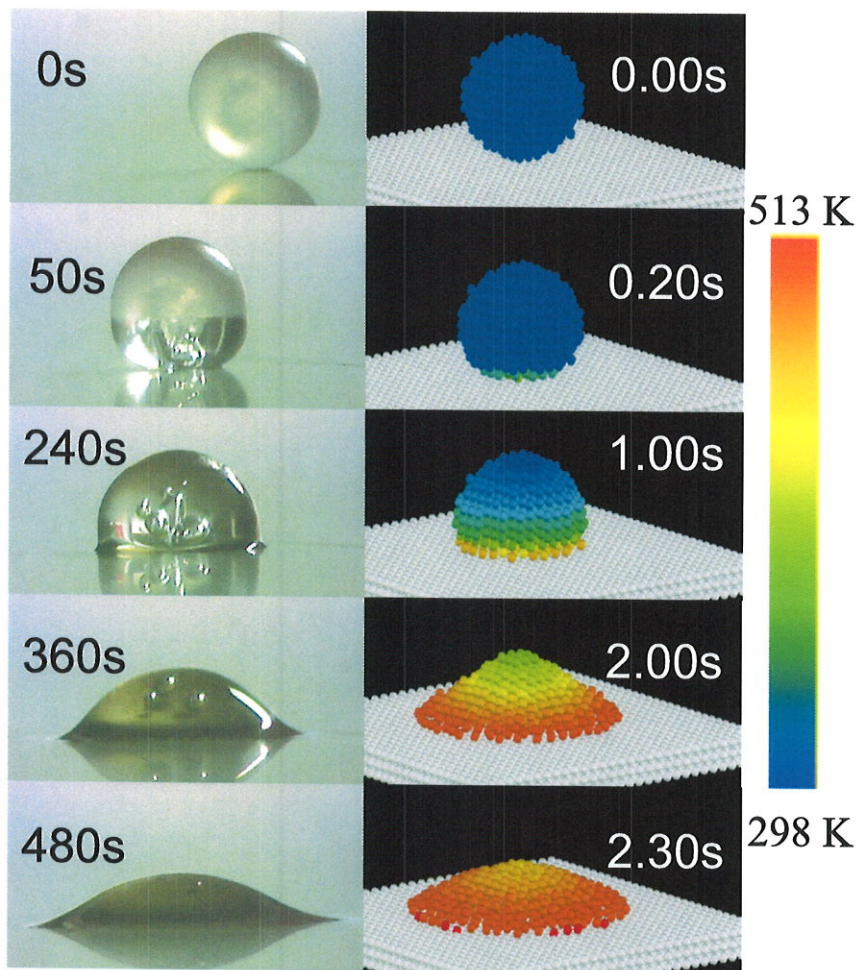
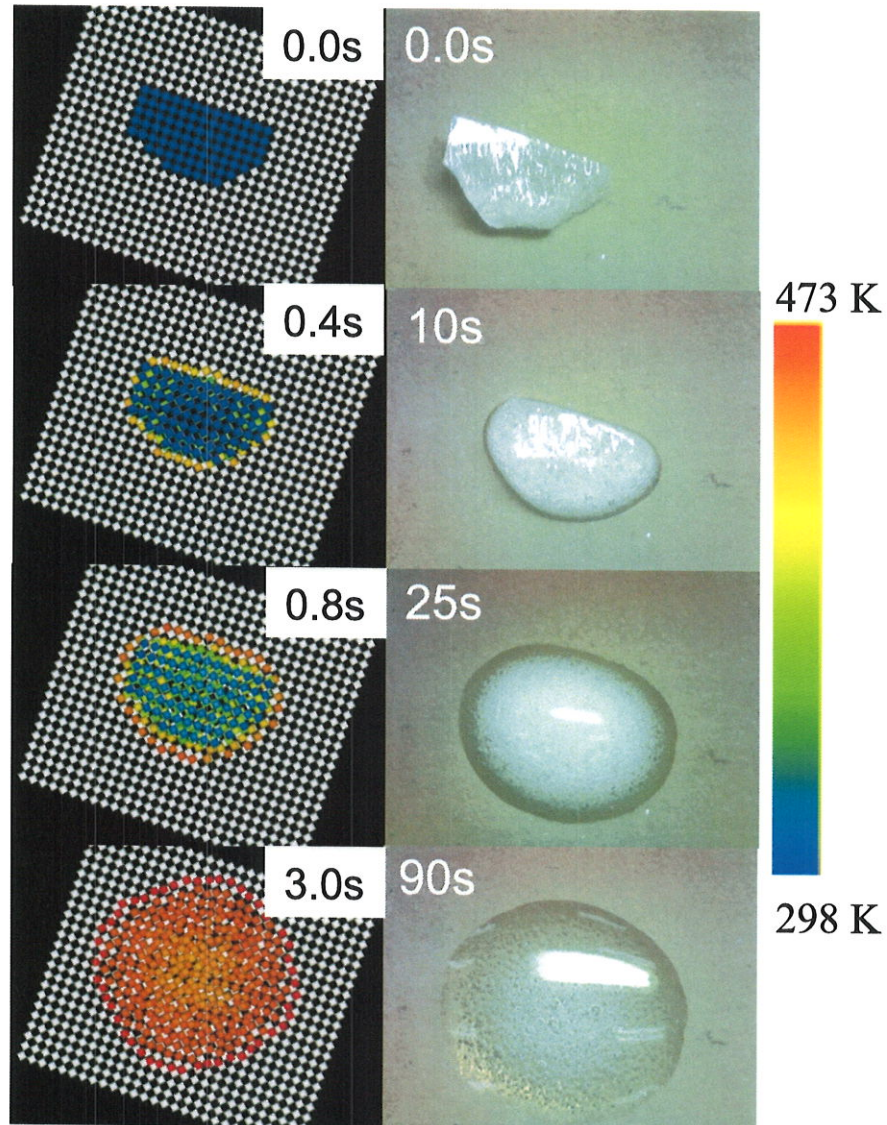


**Fig. 5 Melting behavior of polyethylene particle ( $D_p=3.2$  mm, at 513 K )**



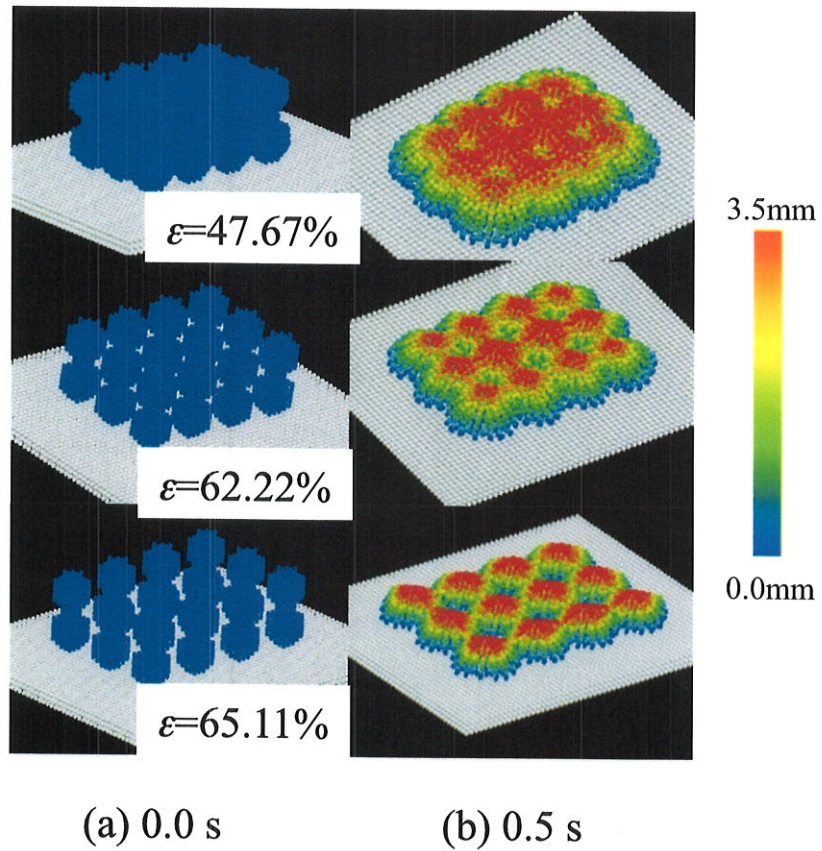
(a) Experiment (b) Simulation

**Fig. 10 Melting behavior of polypropylene particle ( $D_p=3.2$  mm, at 513 K)**



(a) Simulation (b) Experiment

**Fig. 12 Melting behavior of polyester resin (at 473 K)**



**Fig. 14 Surface Condition of melting polyethylene particle bed**