



This research was conducted at the University of Lille in collaboration with several French institutions (CNRS, INSERM, INRAE) and international partners (Tokyo University of Science and Doshisha University, Japan).

The effect of humidity, temperature, and drying duration on microparticle detachment force: insights into capillary-induced deformation at the particle-substrate interface

In this study, we reveal how drying conditions of an evaporating capillary bridge between a 2- μm microparticle and a substrate can squeeze the particle against the surface, enlarging the contact zone and strengthening adhesion.

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