The capillary bridge technique to study superhydrophobic surfaces

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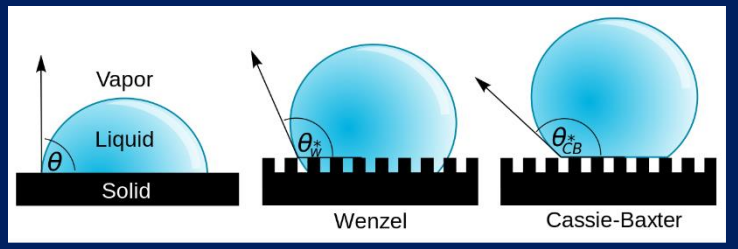
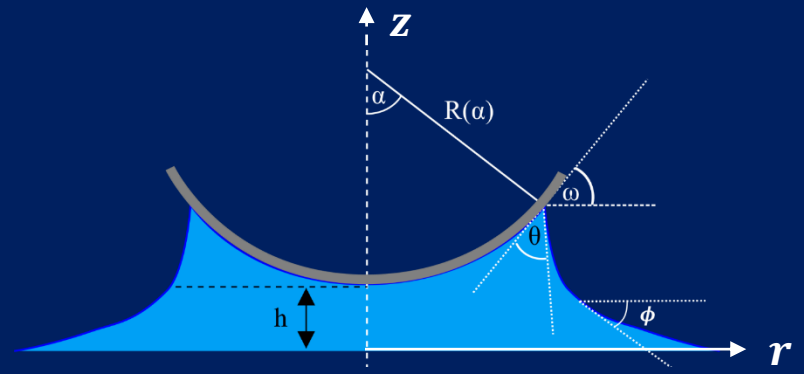
The capillary bridge technique to study superhydrophobic surfaces.

Céline Cohen, Yann Bouret, Xavier Noblin.
Institut de Physique de Nice.

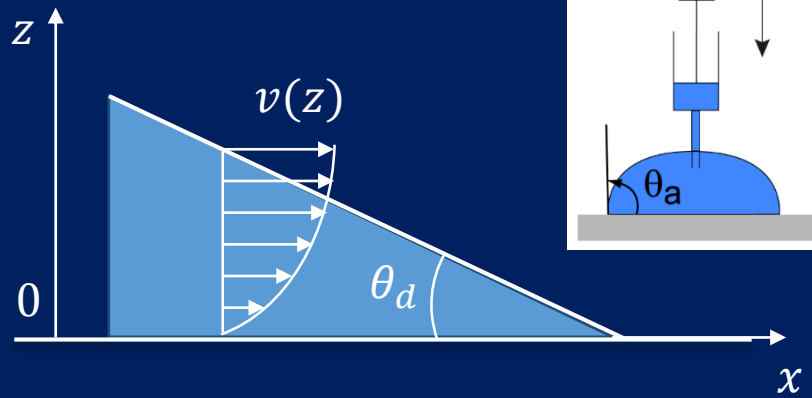


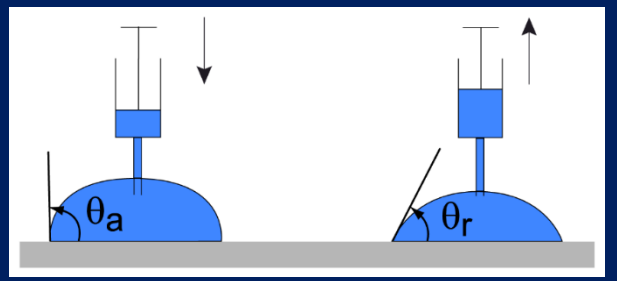
Superhydrophobic surfaces: multiscale roughness. Metastable state.

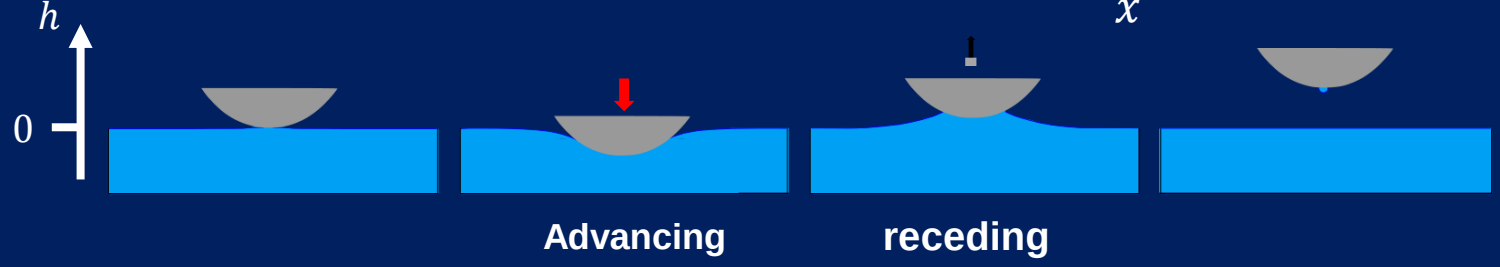
Contact line dynamics problem.



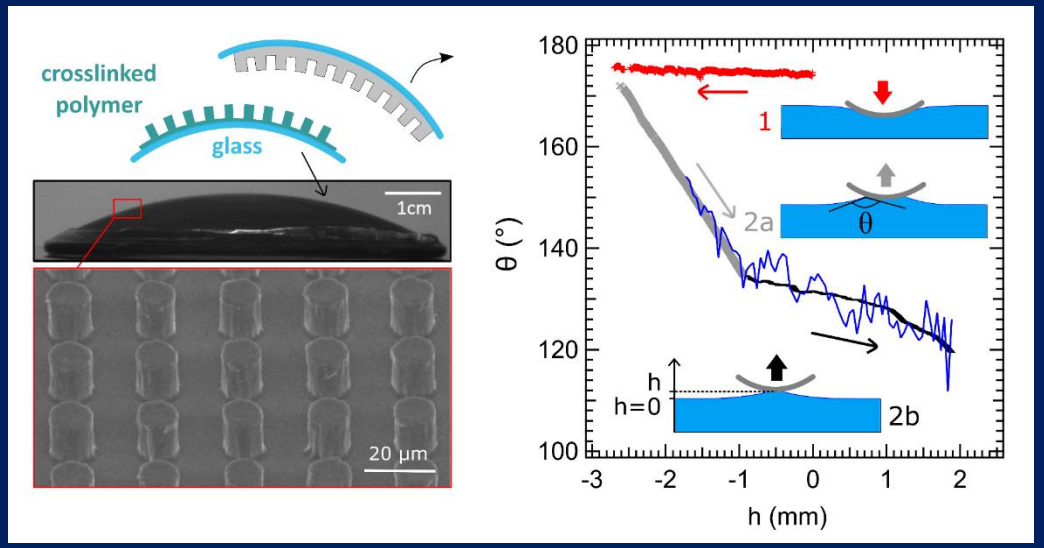
Capillary bridge setup.



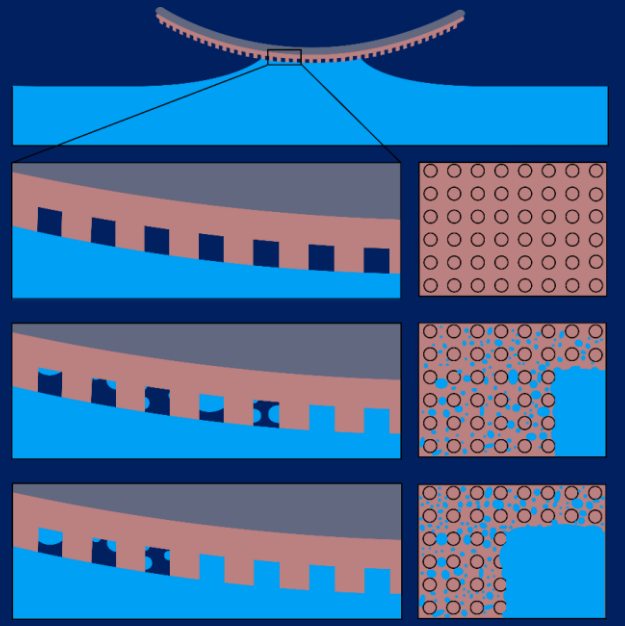




Fabrication of curved superhydrophobic surfaces

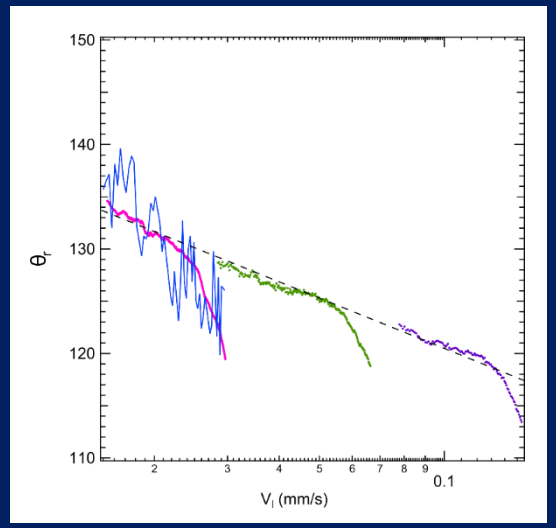


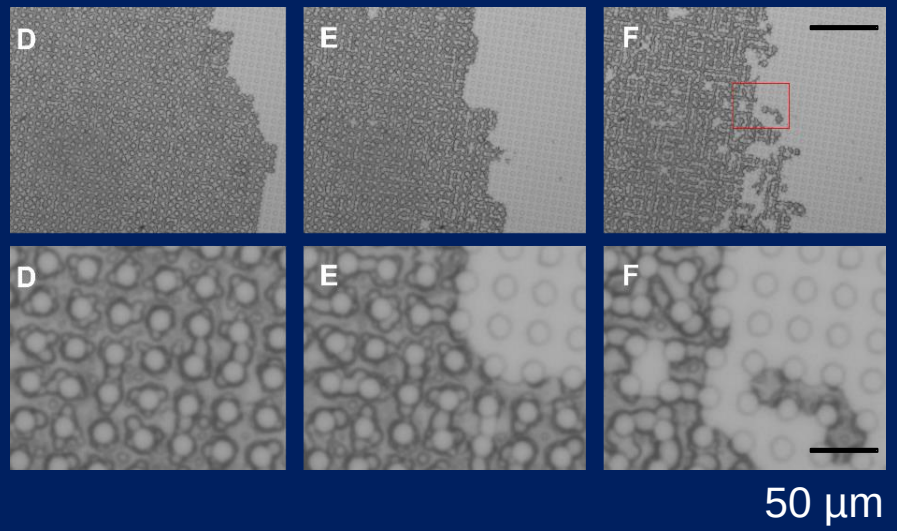
Large contact area : condensation effect
At room temperature and humidity.



- Contact angle hysteresis

- Dynamical contact angle





C. Cohen *et al.*, *Soft Matter*, 2019.