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The capillary bridge technique to study superhydrophobic surfaces

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► **To cite this version:**

Céline Cohen, Yann Bouret, Xavier Noblin. The capillary bridge technique to study superhydrophobic surfaces. Complex Days, Académie Systèmes Complexes, Mar 2019, Nice, France. hal-03862789

HAL Id: hal-03862789

<https://hal.science/hal-03862789v1>

Submitted on 21 Nov 2022

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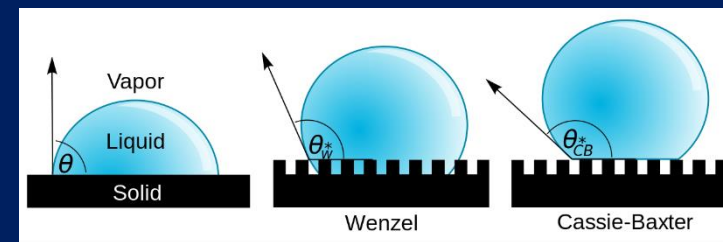


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The capillary bridge technique to study superhydrophobic surfaces.

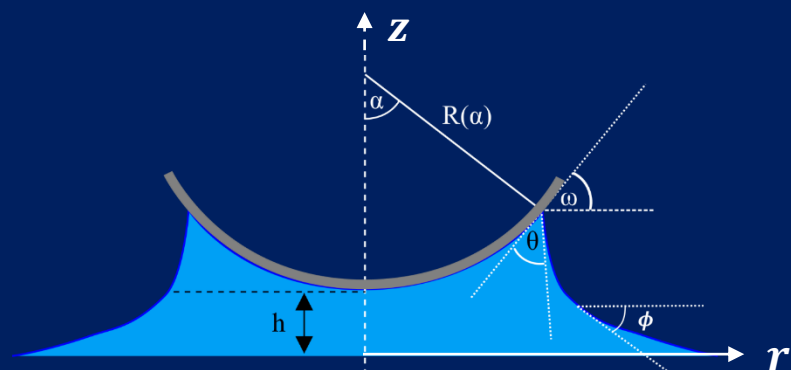
Céline Cohen, Yann Bouret, Xavier Noblin.

Institut de Physique de Nice.

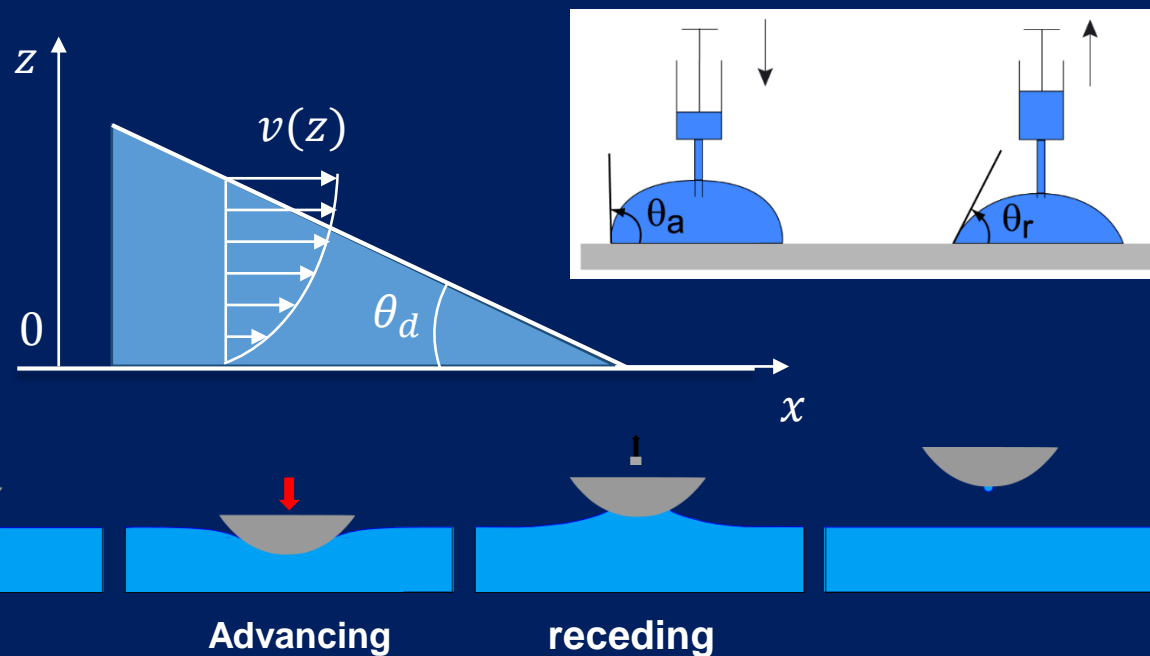


Superhydrophobic surfaces: multiscale roughness. Metastable state.

Contact line dynamics problem.



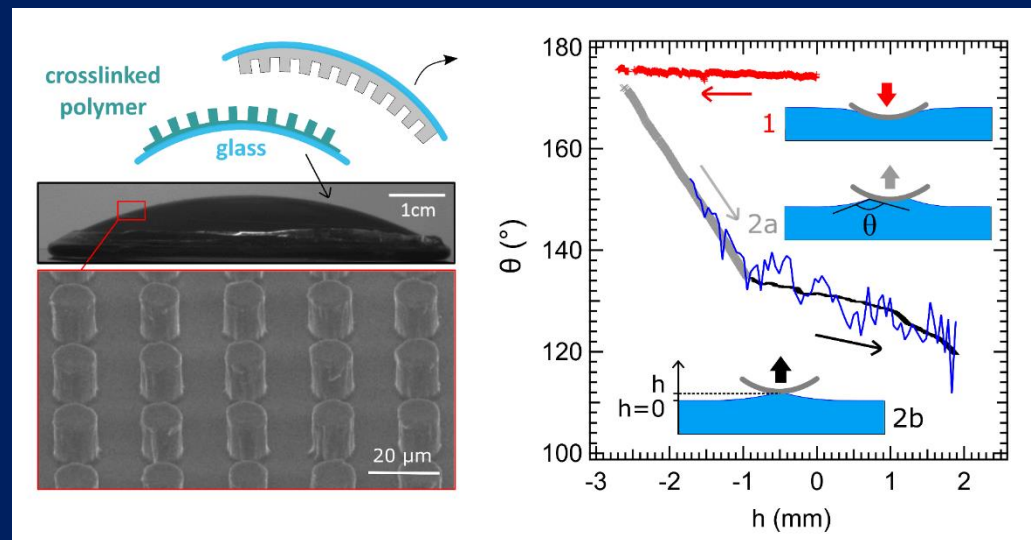
Capillary bridge setup.



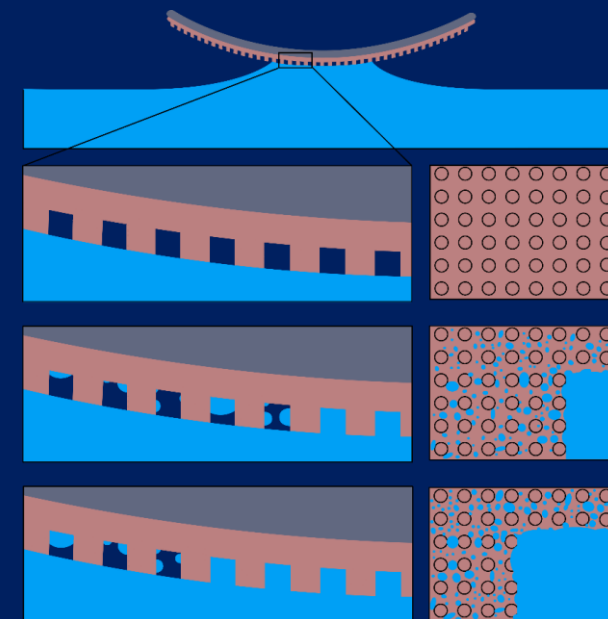
Advancing

receding

Fabrication of curved superhydrophobic surfaces



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



- Contact angle hysteresis
- Dynamical contact angle

