

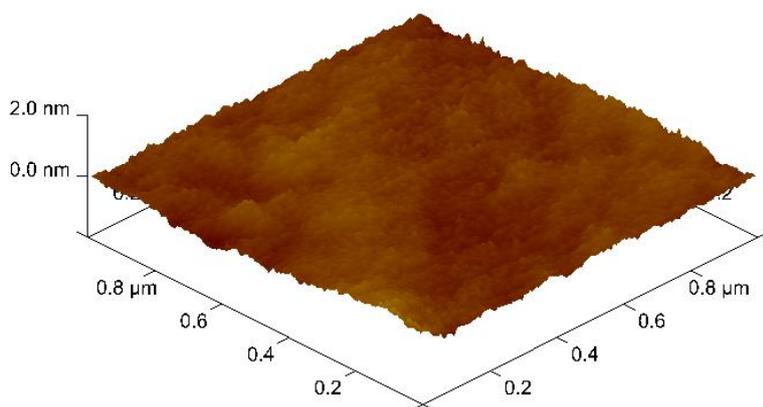
## Collapsing and reswelling kinetics of thermoresponsive polymers on surfaces: a matter of confinement and constraints

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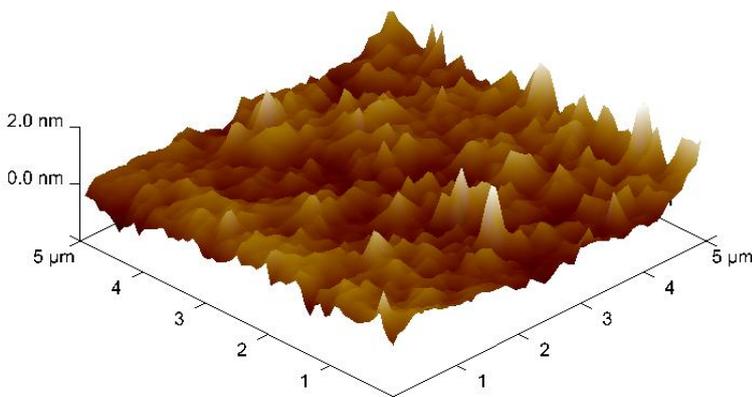
### Supplementary Information

#### AFM images of the layers grafted on silicon substrates

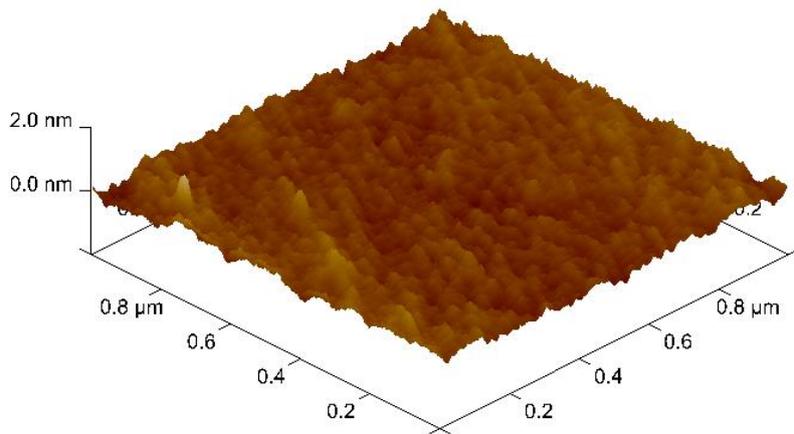
AFM images below and above the LCST. For the mono-acrylate, the AFM images show the classical morphology of "pinned micelles" above the LCST, typical of a collapsed state. For the bis-acrylate, the images show that above the LCST, the morphology has only slightly changed, indicating that the collapsing is limited. Images were recorded in intermittent contact (IC) mode.



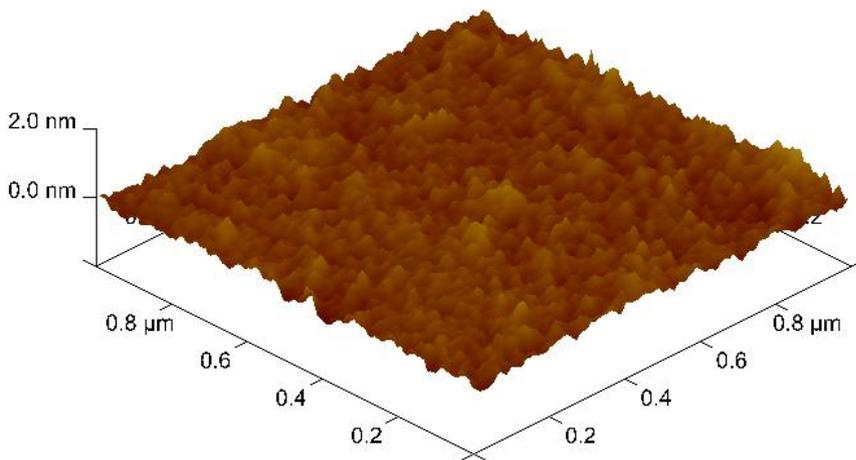
**Figure S1: AFM topography image (IC mode) of mono-acrylate PMVE tip below LCST (swollen state)**



**Figure S2: AFM topography image (IC mode) of mono-acrylate PMVE tip above LCST (collapsed state)**



**Figure S3: AFM topography image (IC mode) of bis-acrylate PMVE tip below LCST (swollen state)**



**Figure S4: AFM topography image (IC mode) of bis-acrylate PMVE tip above LCST (collapsed state)**