## Temperature Effects in Nanoscale Friction: Thermal Probes Reveal the Role of Capillary Bridges

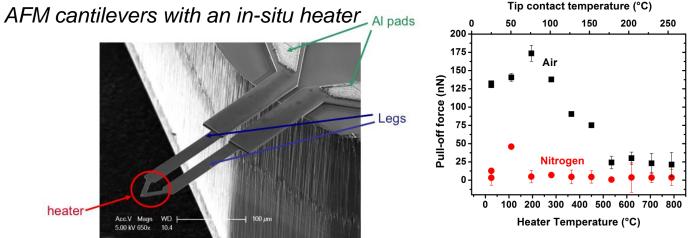


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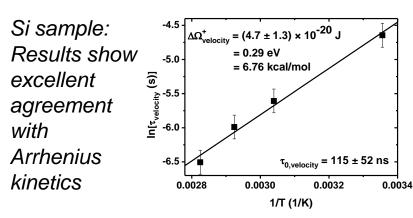
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SiO<sub>2</sub> sample: In humid air, friction increases with temperature due to the thermal nucleation of a water meniscus, then decreases due to evaporation

Lee et al., J. MEMS 15 (2006) 1644-1655

Greiner et al., ACS Nano, 6, 4305–4313 (2012)



Greiner et al., NanoLetters, 10, 4640-4645 (2010)

## Capillary observed in environmental SEM

