

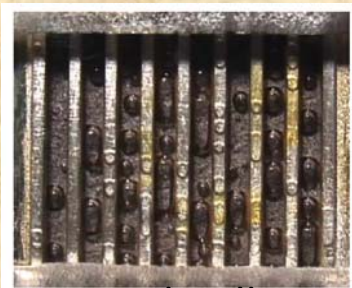
Bubble Detachment on Micro/Nano Structured Solid Surfaces in Energy Applications

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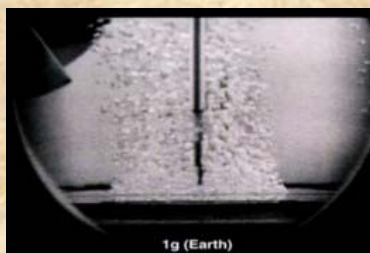
Motivation:

Detachment/removal of bubbles are critical process in many energy applications

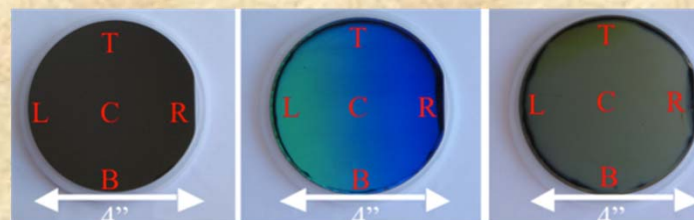
Method/Achievement: Using two-mirror interference lithography, uniform arrays of nanostructures are fabricated **over the entire area of 4" wafer.**



Fuel Cells



Boiling



Key idea: Nanostructured surfaces will significantly reduce the adhesion between the bubbles and surface

