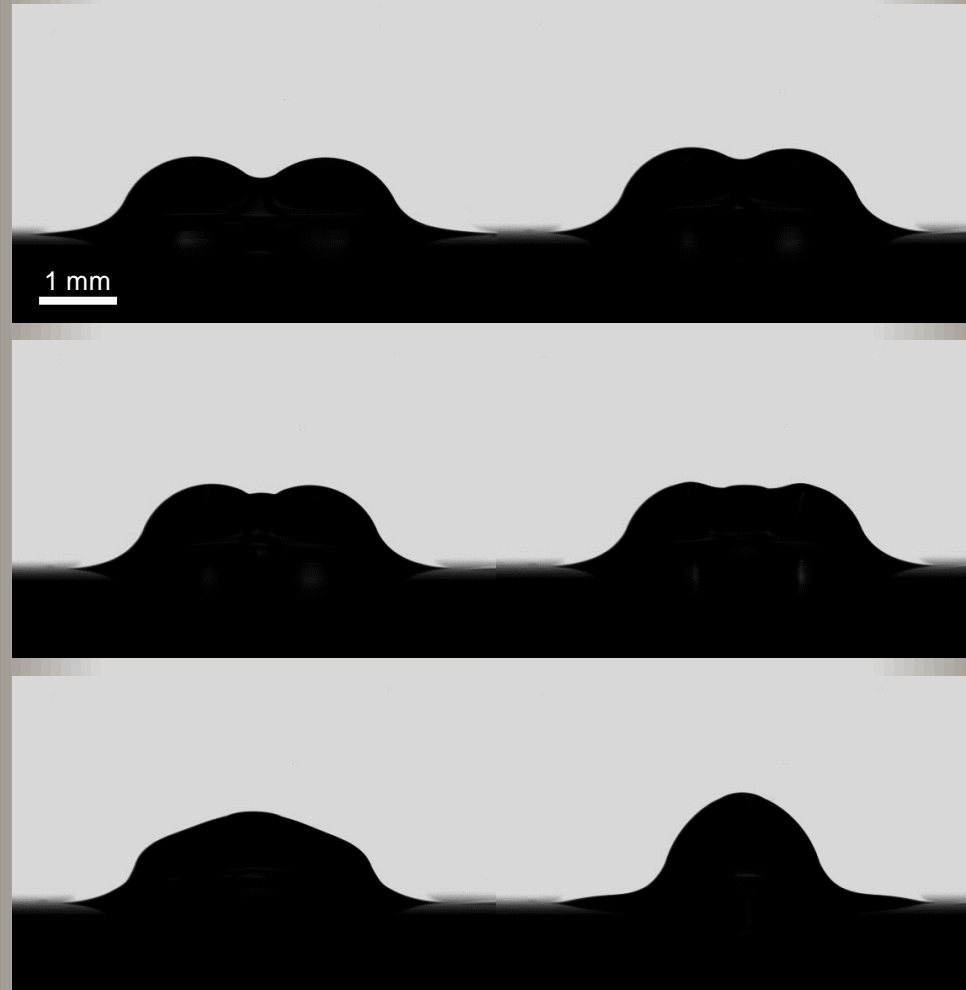


Droplet coalescence mechanism on lubricant-infused surfaces

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Droplets coalescence in three distinct stages on lubricant-infused surfaces. The first stage involves attraction when the wetting ridges overlap. This is followed by the growth and drainage of the oil in the wetting ridge. Finally, the droplets coalesce by fully displacing the wetting ridge.