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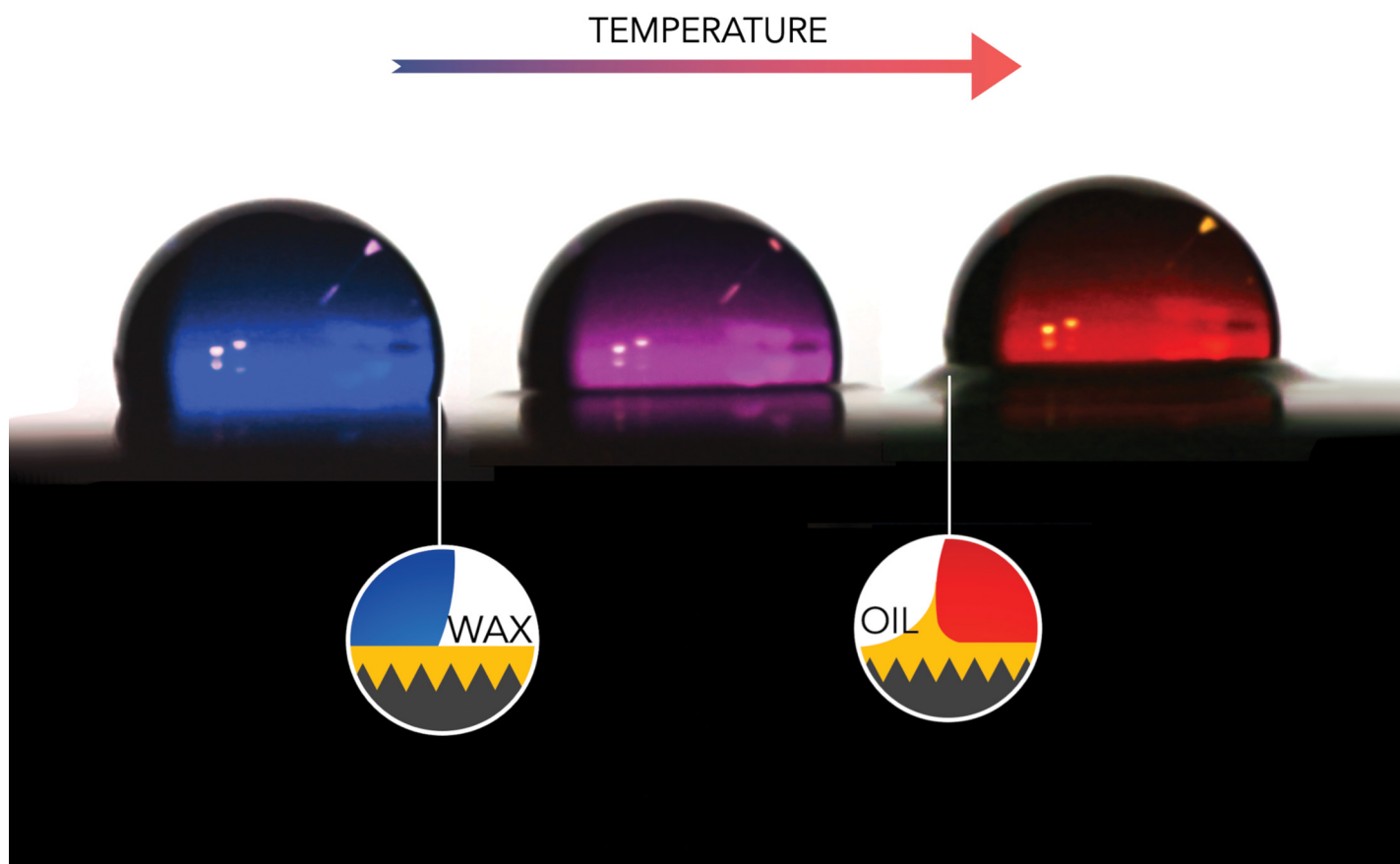
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Showcasing research from Professor Samantha McBride's Lab,
School of Engineering and Applied Sciences,
University of Pennsylvania, Philadelphia, USA.

Dynamic droplet behavior for analyte localization on phase change liquid infused surfaces

Phase change liquid infused surfaces (PC-LIS) combine the slippery properties of liquid infused surfaces with the resilience of solid materials for controllable switching between high hysteresis and hysteresis. We explored the dynamics of drops evaporating on PC-LIS as a simple approach to concentrating and detecting dilute, environmental analytes such as microplastics, where analytes are concentrated in the slippery, liquid state before transitioning to the solid state for further analysis. Pictured here are drops placed on a PC-LIS in different phases: solid state (blue drop), liquid state (red drop), and a partial transition (purple drop).

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As featured in:



See Samantha A. McBride *et al.*,
Soft Matter, 2026, **22**, 1948.