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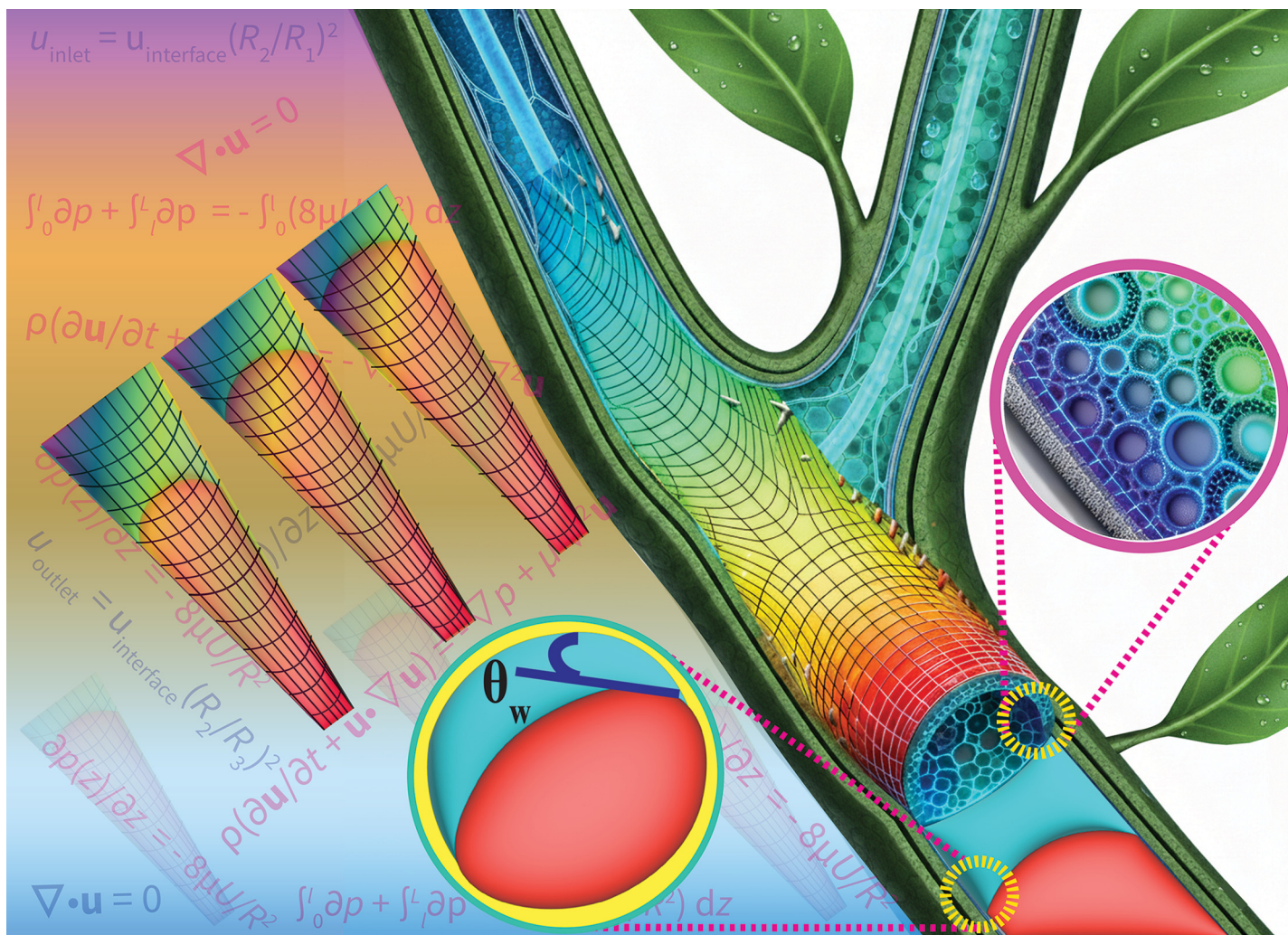
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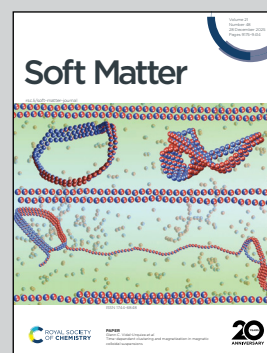
Showcasing research from Professor Deshmukh's laboratory, Department of Chemical Engineering, Indian Institute of Technology Guwahati, Assam, India.

Wettability-gradient-driven capillary filling dynamics in architected tapered microchannels

This work explores how combining geometric tapering with tailored wettability gradients precisely controls capillary filling dynamics in microchannels, enabling fluid acceleration and on-demand halting.

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As featured in:



See Soumadip Das, Vinod B. Vanarse and Omkar S. Deshmukh, *Soft Matter*, 2025, **21**, 9213.