

Three problems involving ternary fluid systems

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Ternary fluid systems often require an extra layer of complexity in describing the surface morphologies and interfacial flows. On the other hand, the physics and dynamics of such systems are of special interests for a variety of practical applications, ranging from microfluidics to oil recovery, combustion engines and lubricated surfaces. In this talk I will discuss our numerical and experimental results in relation to three of such applications, namely double emulsion formation in microfluidic flow-focusing devices; drop impact between immiscible liquid droplets; and the drop and ridge dynamics on Slippery Liquid Infused Porous Surfaces (SLIPS).

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