

Geometry and kinetics determine the microstructure in arrested coalescence of Pickering emulsion droplets

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SUPPLEMENTARY MATERIAL

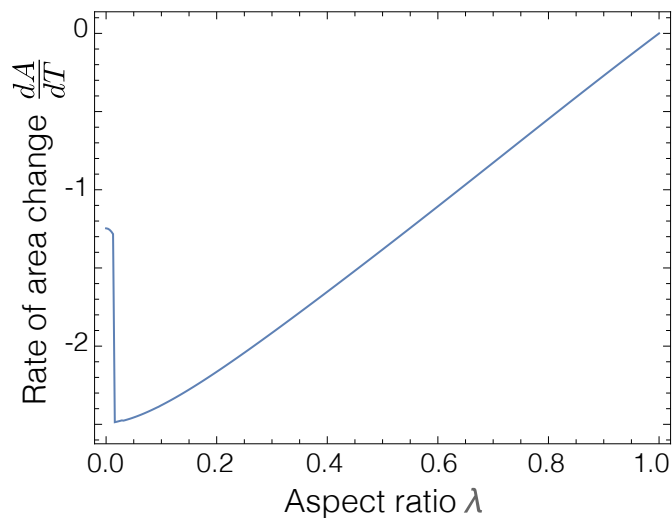


Figure S1. Total rate of area change dA/dT as a function of aspect ratio λ .

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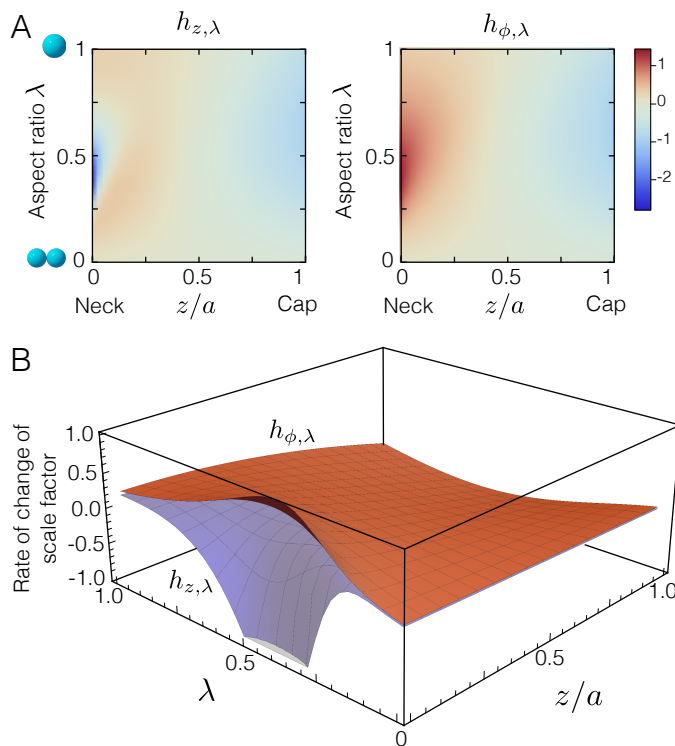


Figure S2. Rate of change of the scale factors $h_{i,\lambda} \equiv \frac{dh_i}{d\lambda}$ as a function of surface aspect ratio λ and position along the rotational symmetry axis z/a . Rate along the z axis $h_{z,\lambda}$ is shown in (A, left) and (B, blue surface); corresponding plots for the azimuthal direction $h_{\phi,\lambda}$ are shown in (A, right) and (B, red surface).

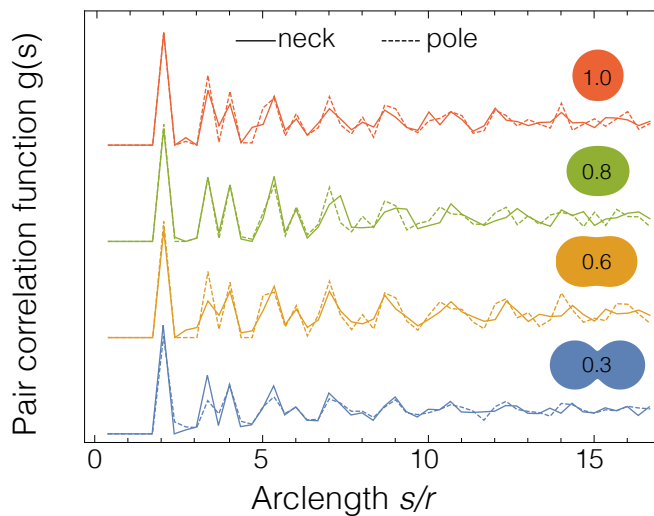


Figure S3. Pair correlation function $g(s)$ as a function of arclength s over particle radius r for particles around neck (solid lines) and pole (dashed lines) on different shapes.

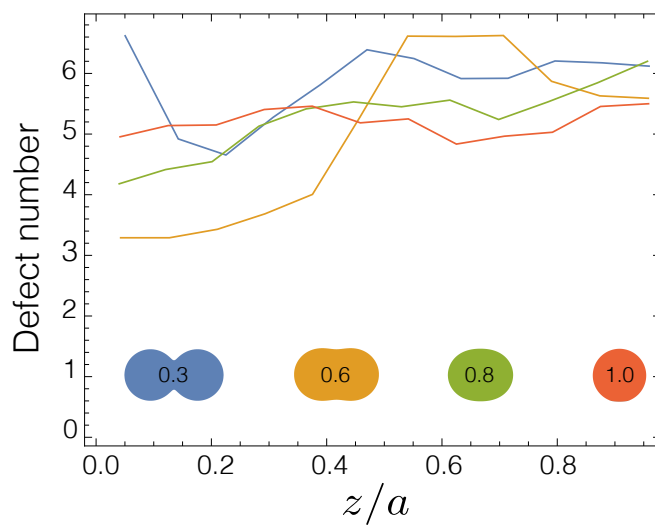


Figure S4. Defect number distribution along the rotational symmetry axis of the surface z/a for different stages of coalescence.

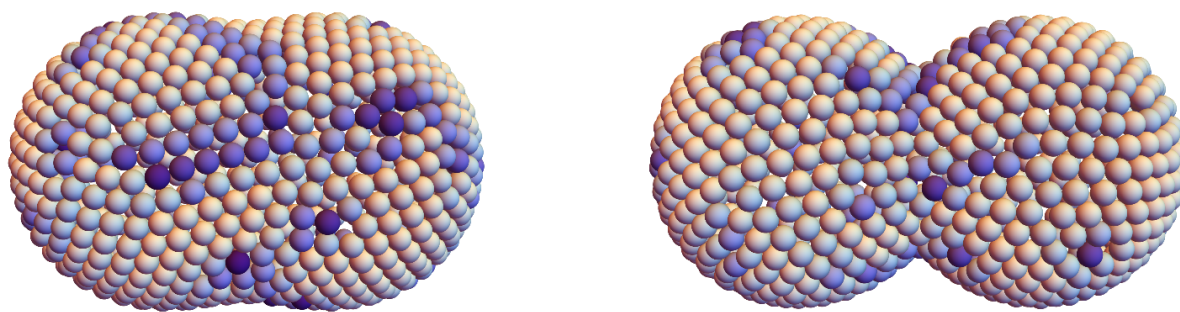


Figure S5. Movies (supplied as separate files) of evolution approaching arrest corresponding to Fig. E and F (early and late arrest respectively). Particles are colored by ψ_6 .