

SUPPORTING INFORMATION

Direct Observation of the Formation of Liquid
Protrusions on Polymer Colloids and their
Coalescence

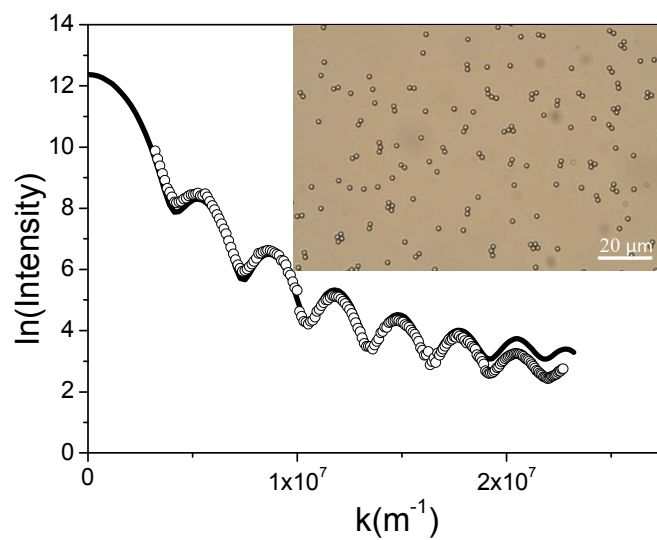
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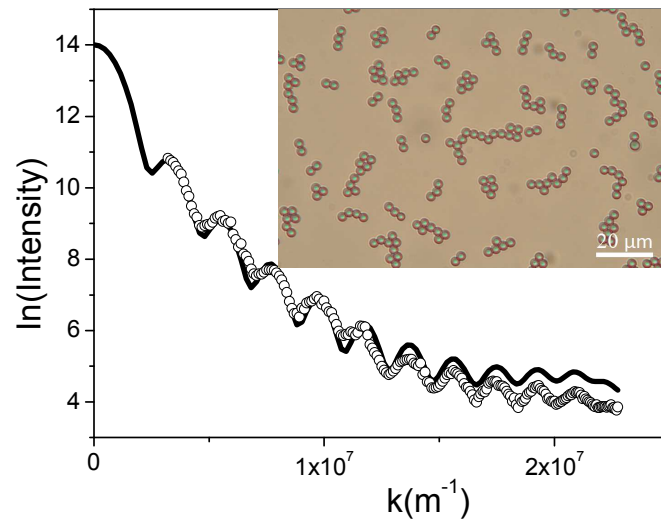
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Characterization of Seed Particles

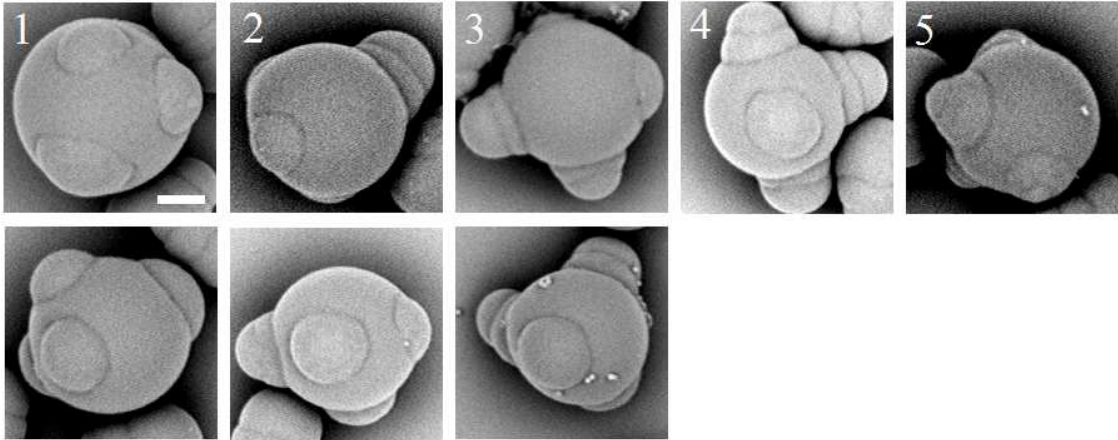


Supplementary Figure 1. Experimental data (open circles) and theoretical fit (solid line) of the uncross-linked template PMMA spheres measured in water. The curve was calculated using Mie theory (radius is 980 nm and polydispersity is 2.8%). The inset is the optical microscopy image of a sample dried on a glass slide.



Supplementary Figure 2. Experimental data (open circles) and theoretical fit (solid line) of the cross-linked seed particles measured in water (with 2 wt% cross-link density). The curve was calculated using Mie theory (radius is 1480 nm and polydispersity is 2.5%). The inset is the optical microscopy image of a sample dried on a glass slide.

Clusters of $n = 4$



Supplementary Figure 3. SEM images of colloidal PMMA clusters comprising four seed particles ($n = 4$); the scale bar is $2 \mu\text{m}$.

Monitor of the formation of liquid protrusions

The supplementary movie is playing at 15 times of normal speed.