

Supporting Information

CO₂/N₂ triggered Switchable Pickering Emulsions Stabilized by Alumina Nanoparticles in Combination with a Conventional Anionic Surfactant

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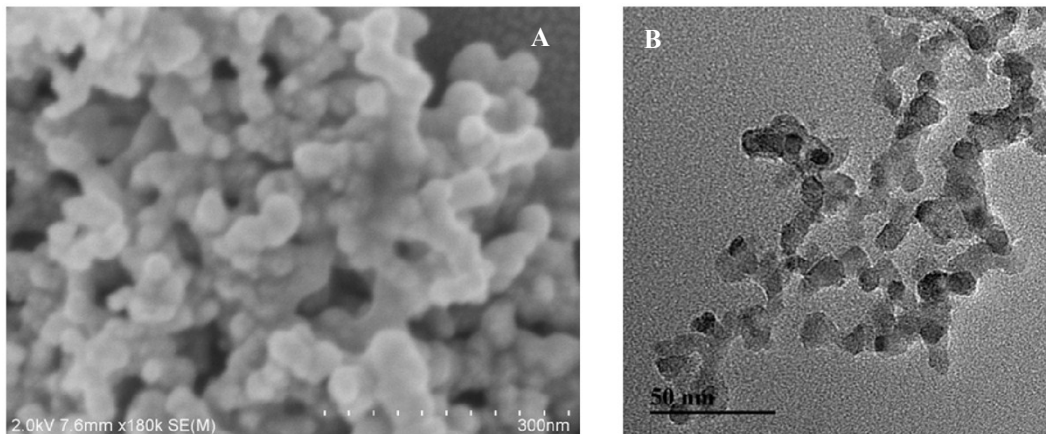


Figure S1. (A) SEM and (B) TEM images of alumina nanoparticles used.

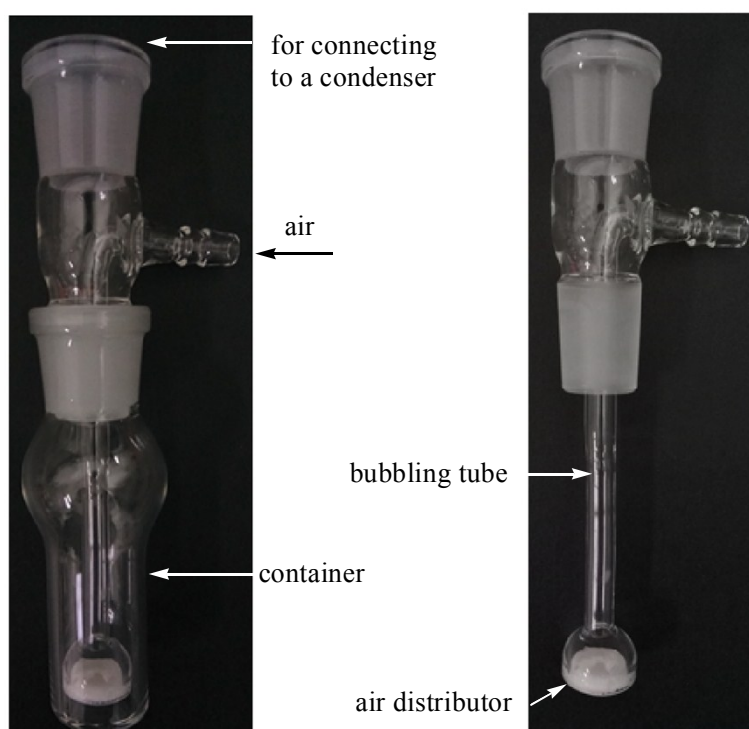


Figure S2. Bubbling device for switching on/off the switchable surfactant DDAA in water continuous phases.

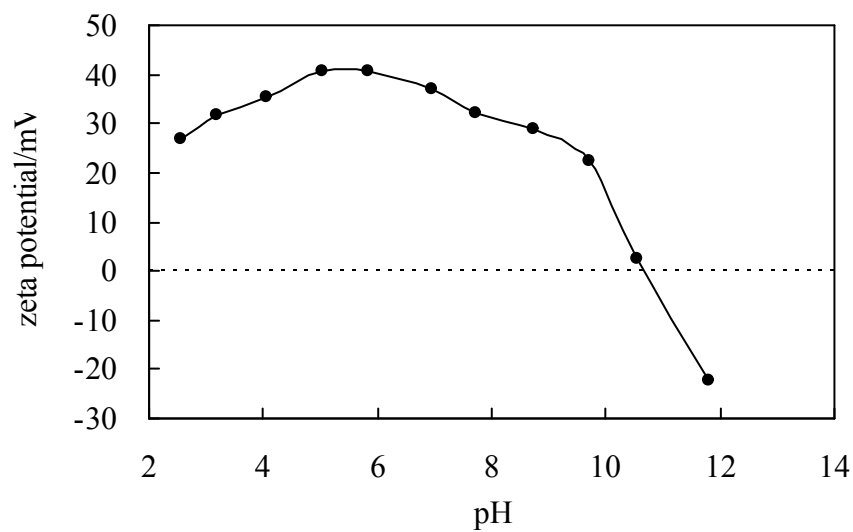


Figure S3. Zeta potential of 0.1 wt.% alumina nanoparticles dispersed in water of different pH at 25 °C.

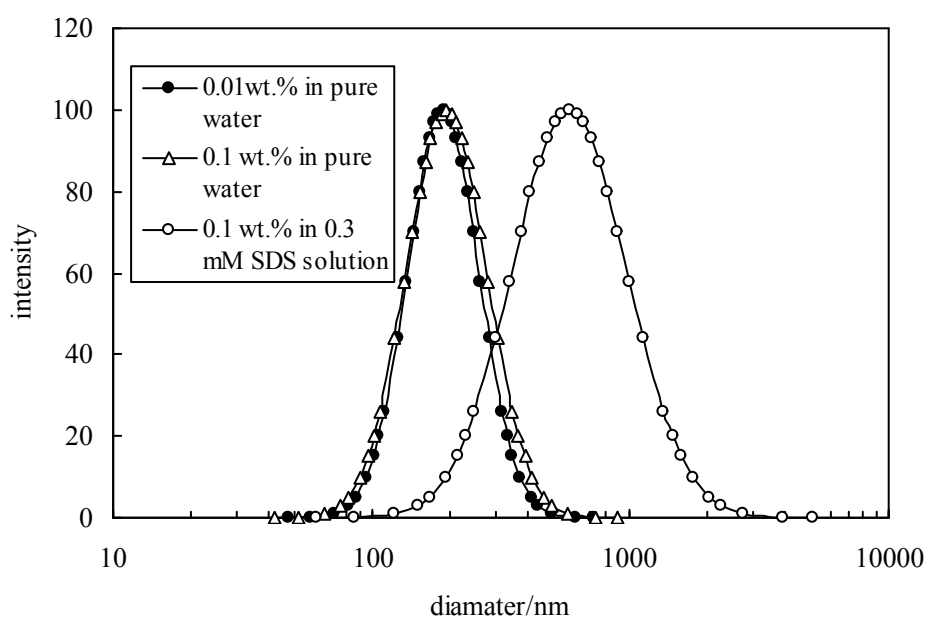


Figure S4. Size distribution by dynamic light scattering of alumina nanoparticles of different concentration dispersed ultrasonically in pure water and in 0.3 mM SDS aqueous solution at 25 °C.

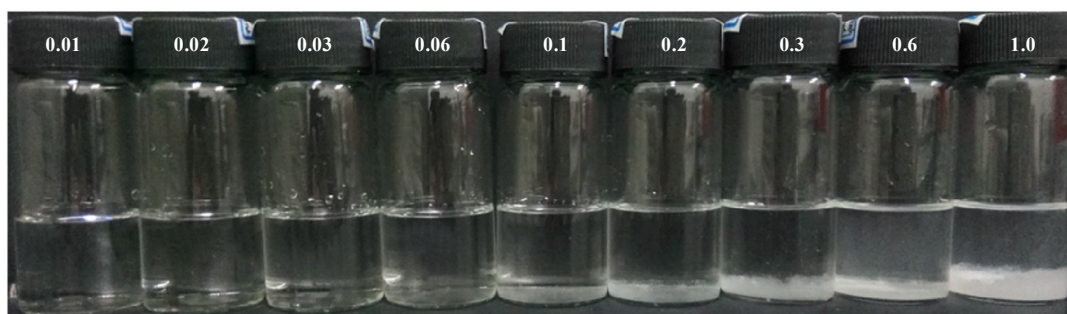


Figure S5. Photograph of aqueous solutions of equimolar mixtures of SDS and DDAA (amidinium/cationic) at different concentrations at 25 °C taken 24 h after preparation. Concentration of each surfactant in mM is given.