Assembly of jammed colloidal shells onto micron-sized bubbles by ultrasound

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Electrokinetic charge of the colloidal particles

The electrokinetic charge of the synthesized particles was analysed with a Malvern Nanosizer S apparatus. Prior analysis the particle dispersion was diluted with water. Adjustment of the pH was done through dropwise addition of 0.1 M hydrochloric acid respectively 0.1 M sodium hydroxide under exclusion of air. About 750 µl of particle dispersion was filled into a disposable folded capillary cell. The applied electrical current was automatically regulated by the in-built software algorithm. Zeta potential vs. pH is depicted in Fig. S 1.