

SUPPLEMENTARY INFORMATION

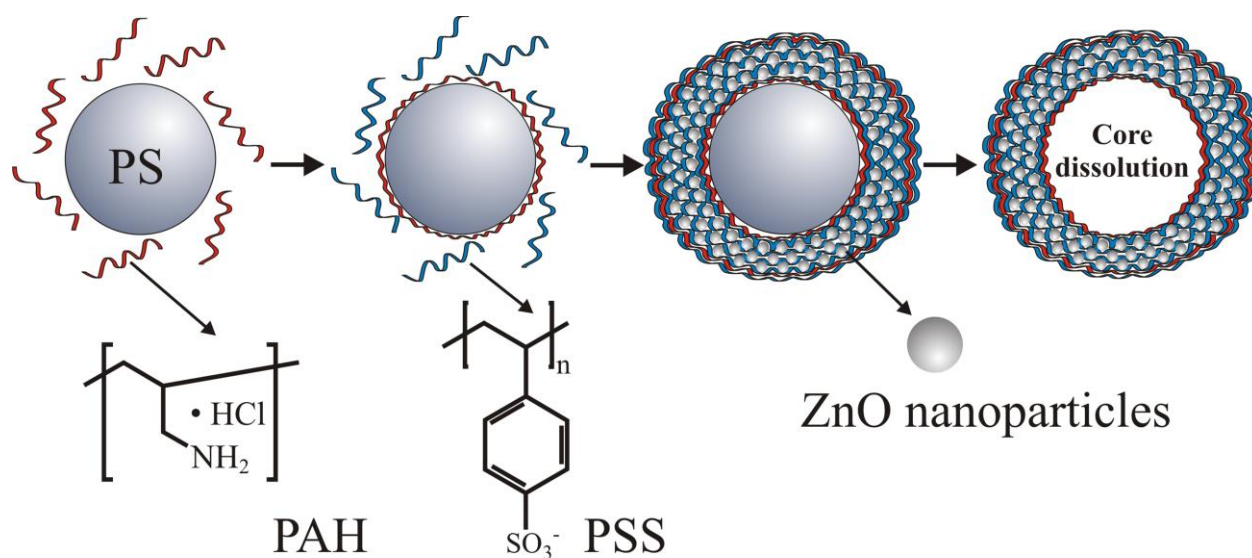


Fig. 1S. Process of LbL assembly on a polystyrene (PS) core

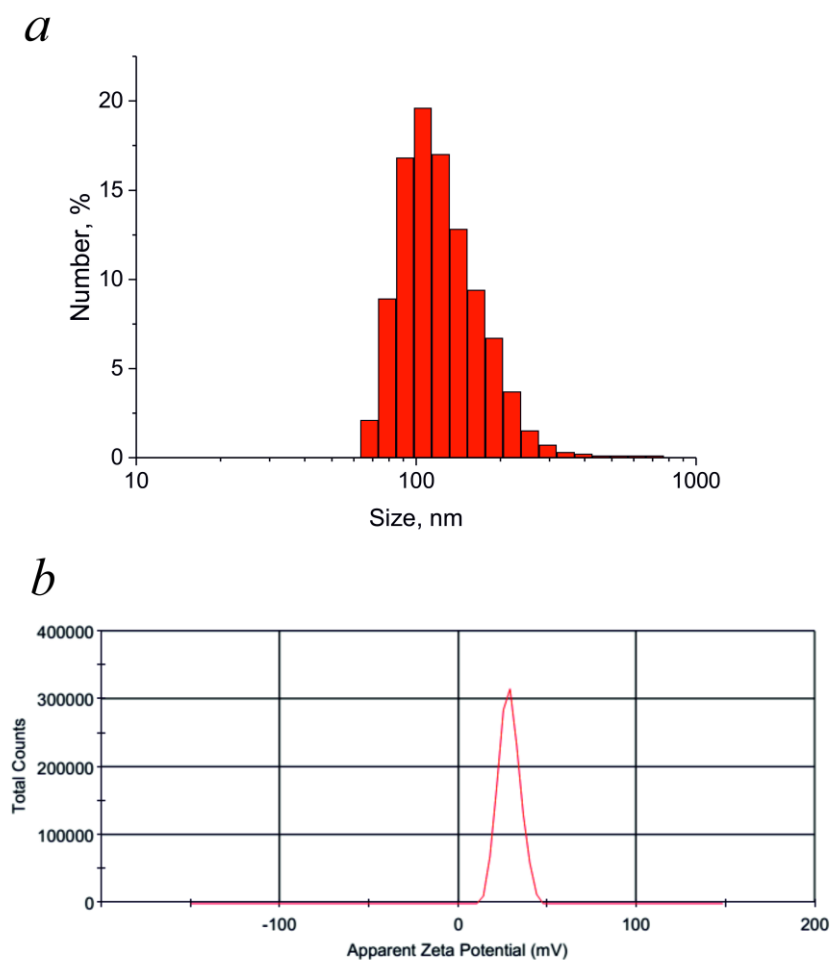


Fig. 2S. DLS particle size histogram (a) and ζ -potential graph (b) of ZnO nanoparticles in aqueous medium.

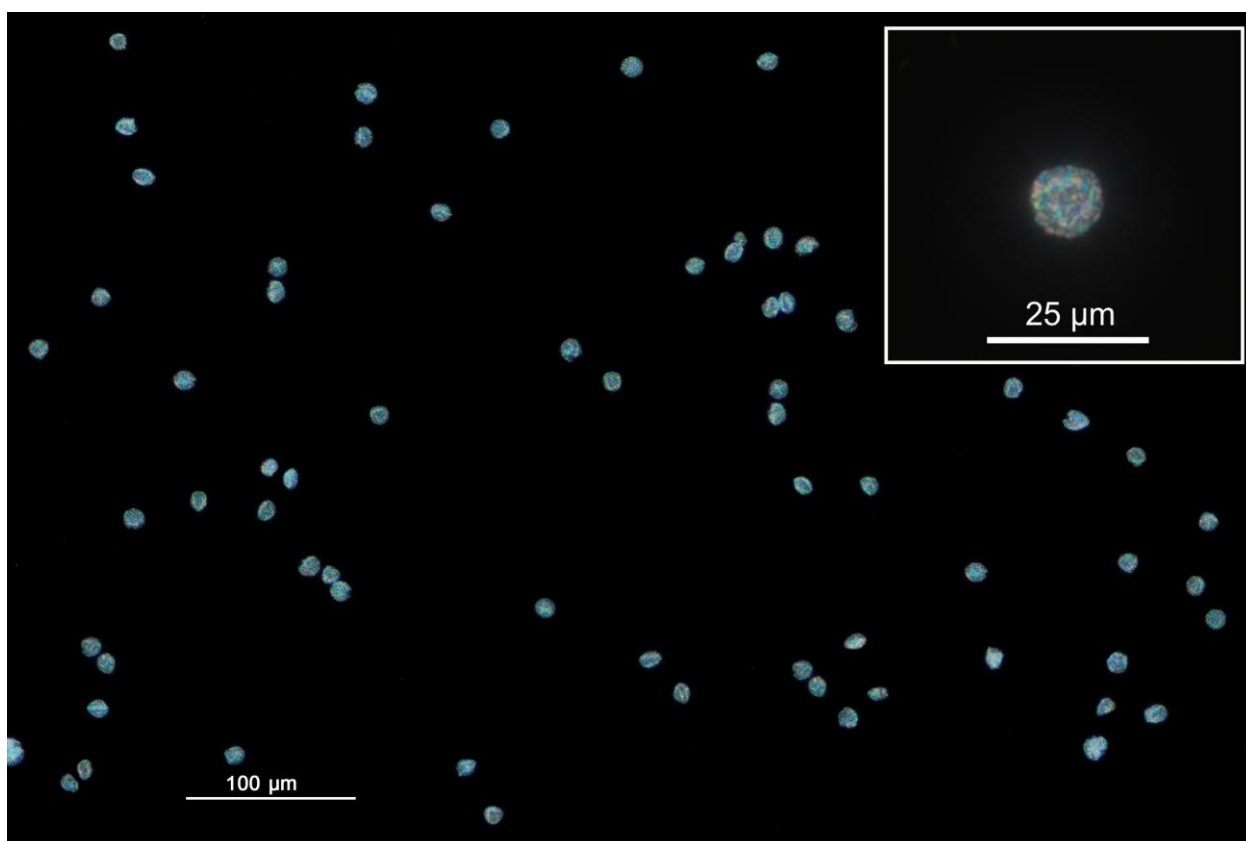


Fig. 3S. Dark field x20 (*a*) and x100 (*b*) images of nanocomposite microcapsules before ultrasonic treatment

Supplementary Movie 1. Video recording of the impact of high-frequency ultrasound on nanocomposite microcapsules