

## Electronic supporting information (ESI)

### Synthesis of uniform PS-b-P2VP nanoparticles via reprecipitation and their use as sacrificial templates for inorganic hollow nanoparticles

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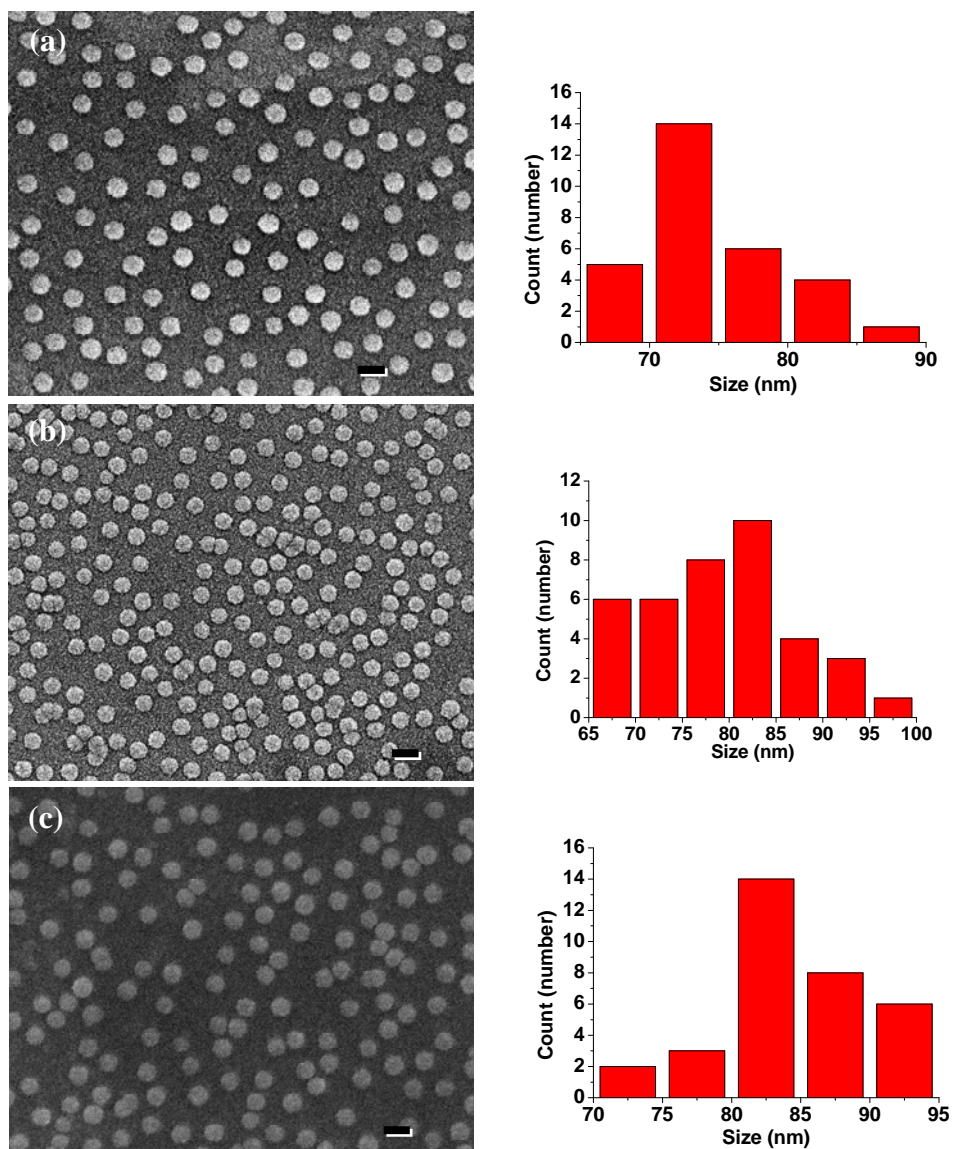


Fig. S1. The larger SEM images and size distribution of PS-b-P2VP BCP nanoparticles prepared by addition of poor solvent (a) methanol, (b) ethanol, and (c) 1-propanol.

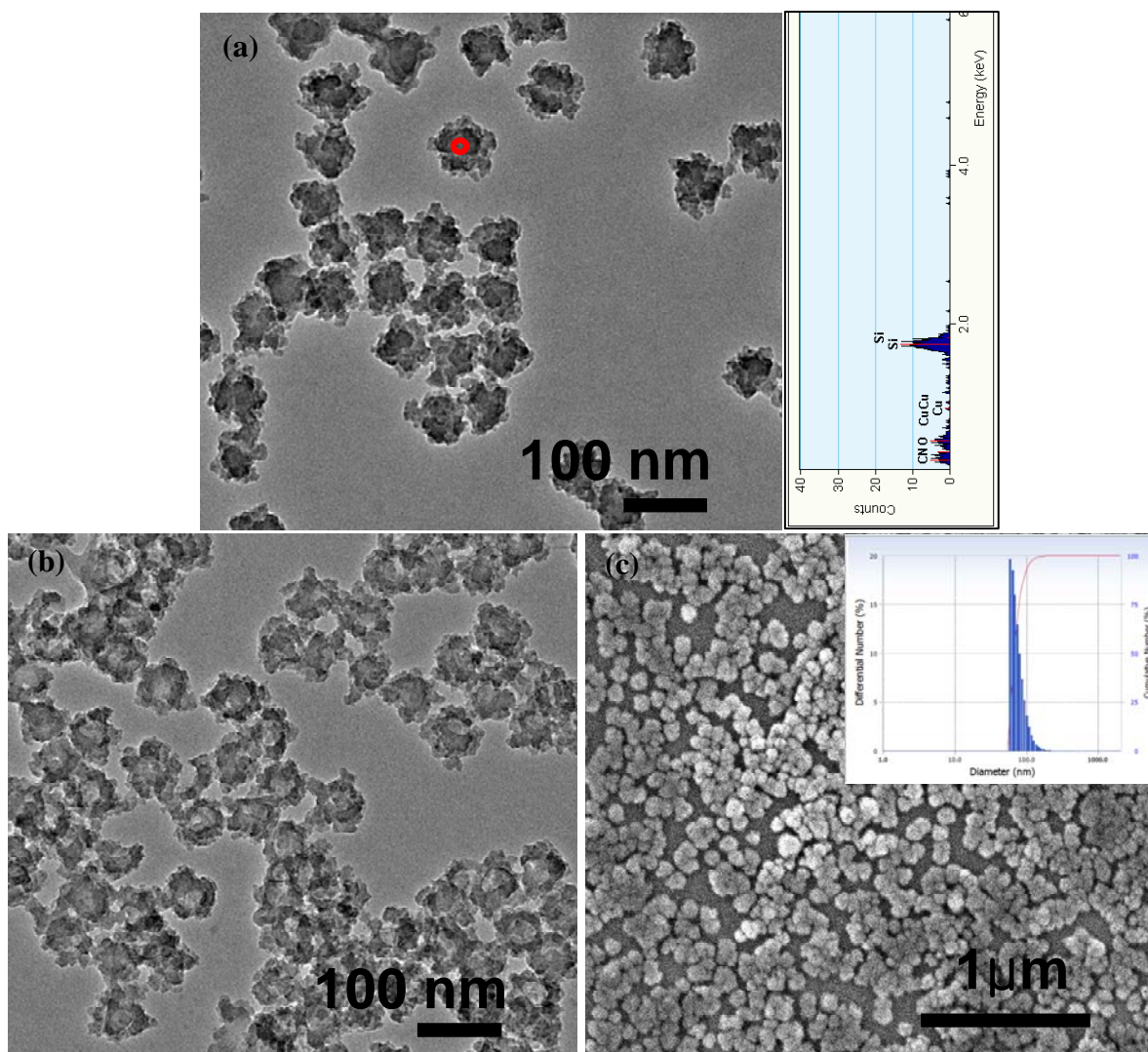


Fig. S2. Larger TEM images of (a) synthesized PS-b-P2VP BCP@silica core-shell particles: right inset = EDX analysis, (b) silica hollow particles obtained by etching of PS-b-P2VP BCP core, and (c) SEM image of hollow silica particles: size distribution of hollow-silica-particles-suspension measured by light scattering.

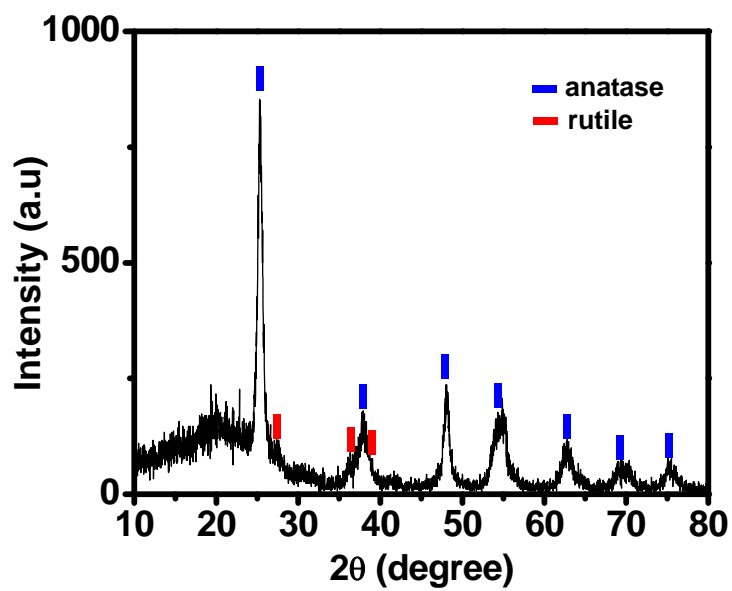


Fig. S3. XRD pattern of calcined hollow titanium oxide nanoparticles.