

Supplementary Information:

Inorganic Nanotubes Formation through the Synergic Evolution of Dynamic Template and Metallophosphate: From Vesicle to Nanotube

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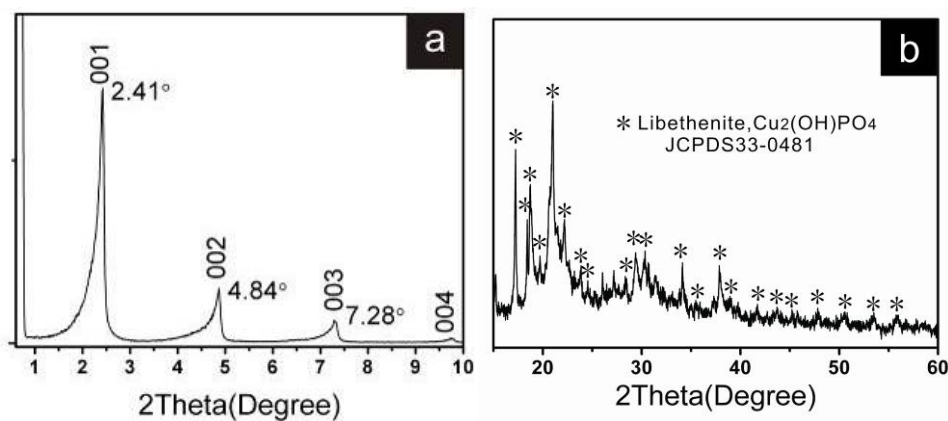


Fig. S1 XRD patterns of the sample synthesized at 383 K for 2 days with mixed organoamines (~9.0/1.0 of C₁₂H₂₅NH₂/C₁₆H₃₃NH₂). (a) small angle XRD (SAXRD), (b) wide angle XRD (WAXRD).

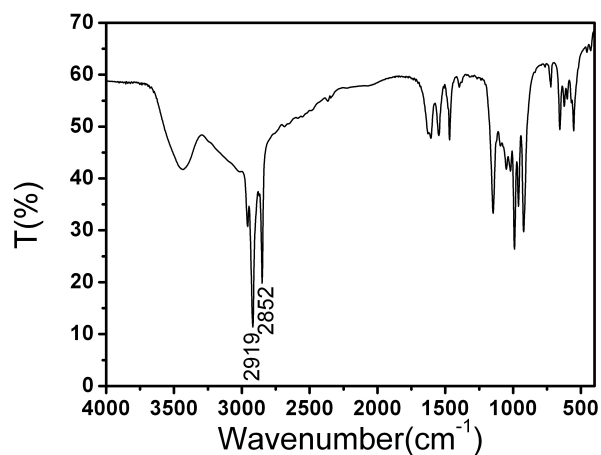


Fig. S2 IR spectra of the nanotubes after hydrothermal treatment of 2 days. The strong signals at 2850 and 2920 cm⁻¹ correspond to the CH₂ groups of the organoamines.

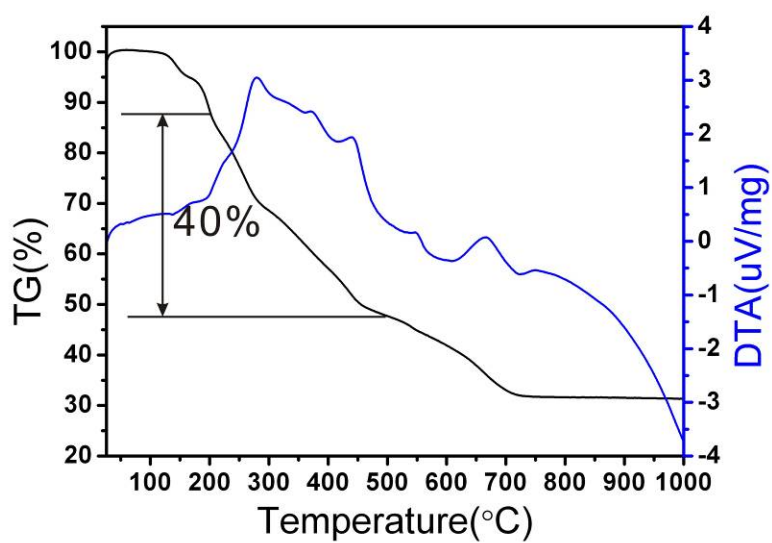


Fig. S3 TG/DTA curves of the nanotubes synthesized at 383 K for 2 days with the mixed organoamines ($C_{12}H_{25}NH_2/C_{16}H_{33}NH_2 = 9/1$).

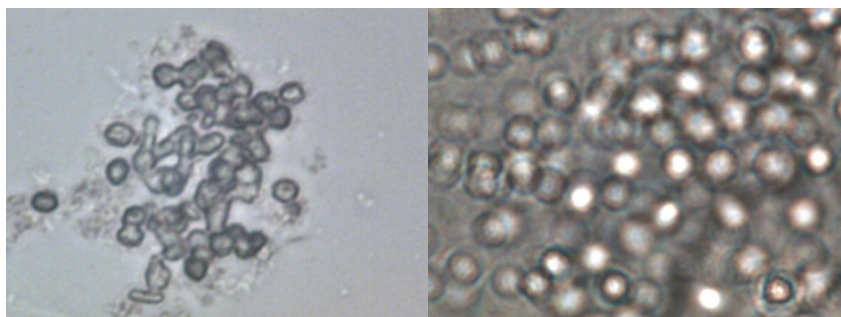


Fig. S4 Optical microscope images of the vesicle intermediates during the process of slow addition of the organoamines (magnification times: 1000 \times): (a) 4 h; (b) 6 h.

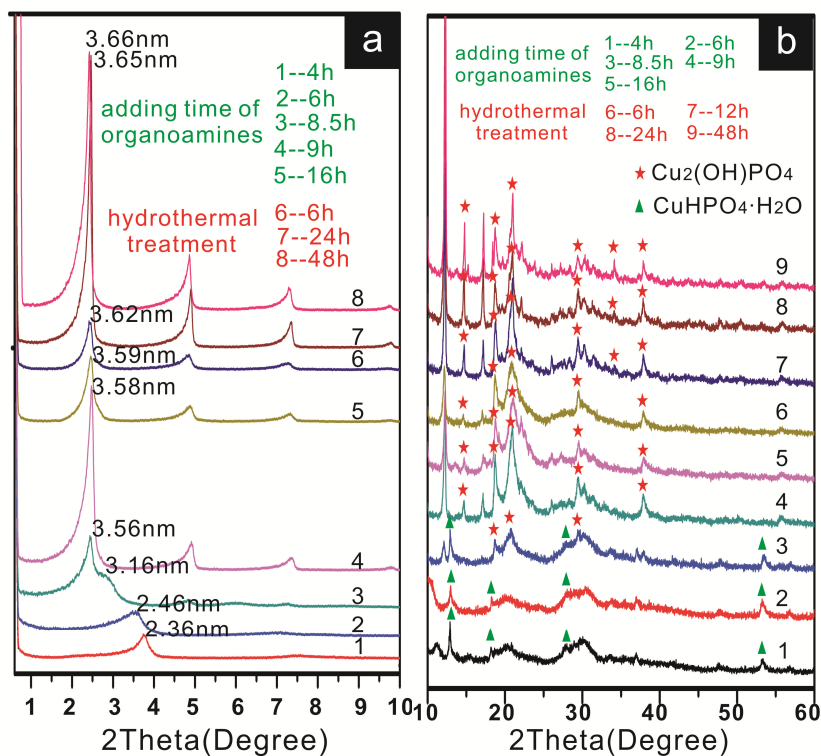


Fig. S5 XRD patterns of the sample synthesized at 383 K for various periods of time in the synthesis process with mixed organoamines (~9.0/1.0 of C₁₂H₂₅NH₂/C₁₆H₃₃NH₂) and hydrothermal treatment. (a) SAXRD, (b) WAXRD.

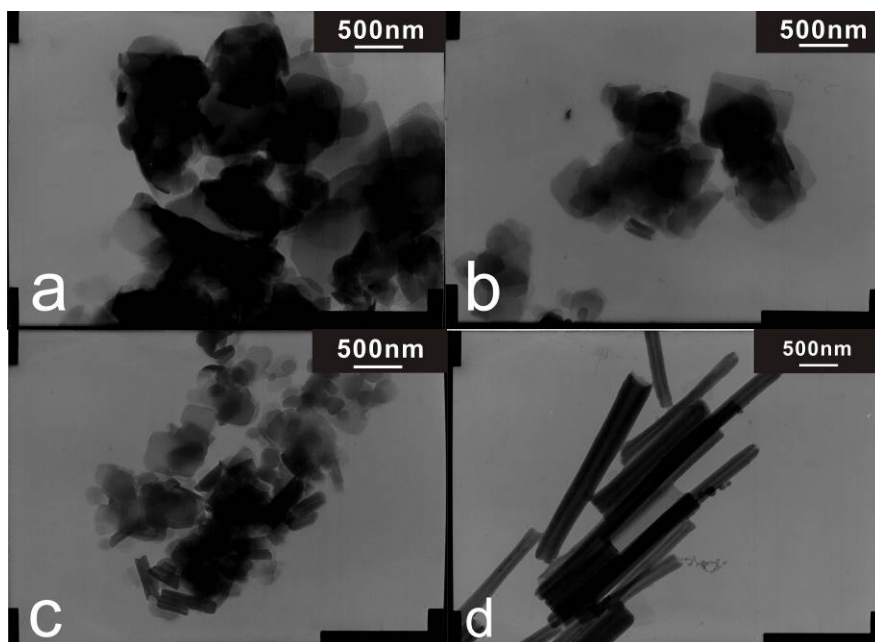


Fig. S6 TEM images of the resultant samples hydrothermally treated at 383 K for 2 days with the precursors obtained under varied adding rates of mixed organoamines (C₁₂H₂₅NH₂/C₁₆H₃₃NH₂ = 9/1): (a) immediately; (b) 1 ml/min; (c) 0.1 ml/min; and (d) 0.025 ml/min.