

## Adjusting phase transition of titania-based nanotubes via hydrothermal and post treatment

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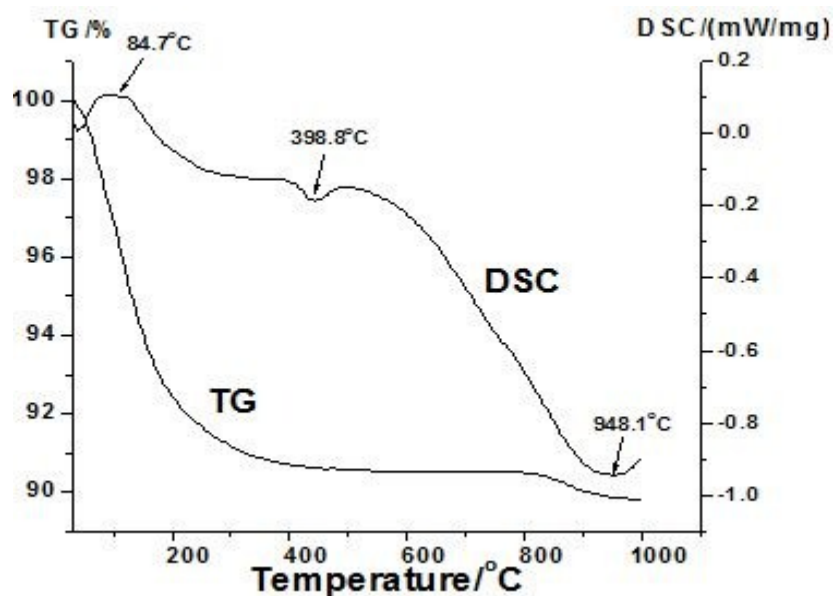


Fig. S1 TG-DSC curves of titanate nanotubes by hydrothermal treatment using P25 as raw material at 130 °C for 24 h

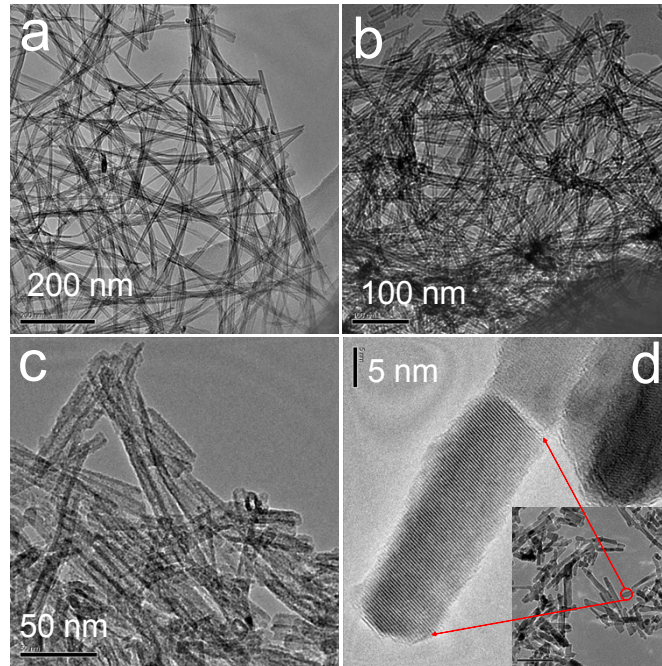


Fig. S2 TEM images of hydrogen titanate nanotubes by hydrothermal treatment using P25 as the starting material at 130 °C for 24 h and washed with deionized water (a), then calcined at different temperatures: (b) 350 °C for 5 h, (c) 400 °C for 5 h, (d) 500 °C for 5 h.

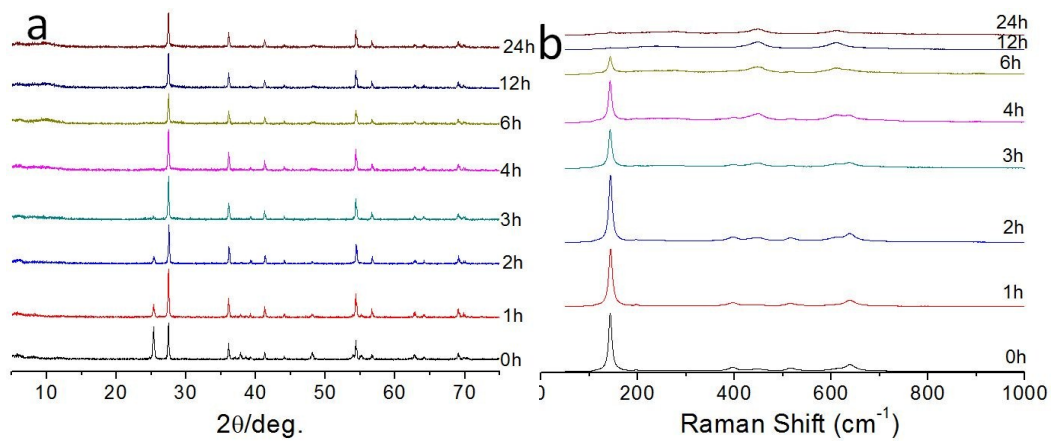


Fig. S3 XRD patterns (a) and Raman spectra (b) of hydrothermal products using P25-700-1 as a material synthesized at 130 °C for different time.

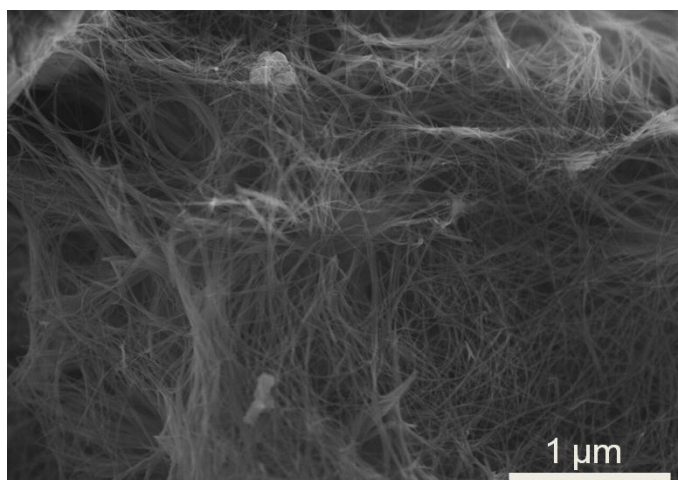


Figure S4 SEM image of the hydrothermal product using P25-800-8 as the starting material at 130 °C for 24 h.

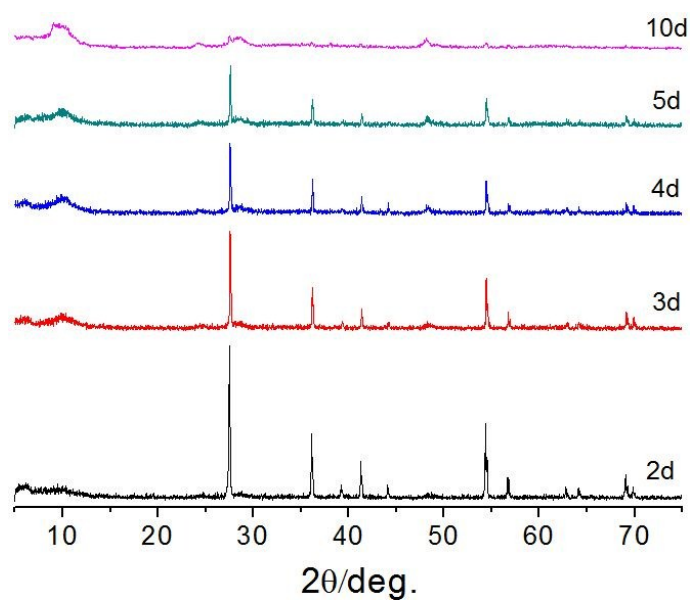


Figure S5 XRD patterns of hydrothermal products using P25-800-8 as the starting material at 130 °C for 2-10 days