Supplementary material for

**Synthesis and Photocatalytic Activity of Pt-deposited TiO2 Nanotubes (TNT) for Rhodamine B Degradation**

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**Figure S1** XRD patterns of different samples with most important planes indicated, ♦ represents the diffraction peak of H2Ti3O7 , ♣ : the typical diffraction peak of anatase, ♥ represents the diffraction peak of brookite, ● : the diffraction peak of rutile.



**Figure S2** Under the condition of different calcination temperature of TNT-Pt SEM images.



**Figure S3** The effect of pH on the zeta potential of TNT-400-Pt.