Electronic Supplementary Information

Chemistry in a confined space: characterization of nitrogen-doped titanium oxide nanotubes produced by calcining ammonium trititanate nanotubes

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Additional HRTEM Data. HRTEM data verify that the calcined NH₄TNT was a hollow tube at 673 K and a solid fiber at 773 K. The TEM micrographs are depicted in Figures 1 and 2 below. The micrograph in Figure 1 shows that the material calcined at 673 K clearly has tubular pores with a diameter of about 4 nm. The dimensions of the lattice fringe indicates that it contains a mixture of (001) plane of TiO₂ (B) phase and (101) plane of anatase phase. The micrograph in Figure 2 demonstrates that the material calcined at 773 K is a solid fiber and its crystalline composition is mainly anatase phase.
Figure S1 The HRTEM micrograph of NH₄TNT that was calcined at 673 K.

Figure S2 The HRTEM micrograph of NH₄TNT that was calcined at 773 K.

**Emission Spectrum of the Light Source.** The emission spectrum of the fluorescent lamp ($\lambda_{\text{max}} = 445$ nm, Taiwan Fluorescent Lamp Company) used in the photocatalytic activity tests is depicted below.
Figure S3 The emission spectrum of the light source.