

# One step solvothermal synthesis of ultra-fine N-doped TiO<sub>2</sub> with enhanced visible light catalytic properties

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## Supplementary Information

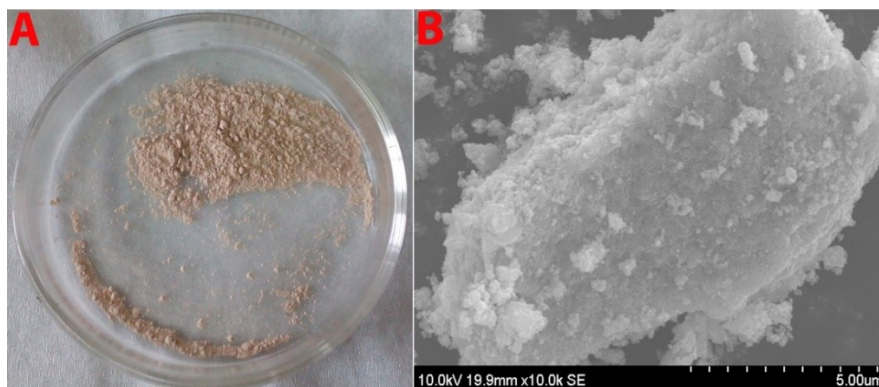


Fig. S1. (A) Photo image and its (B) SEM image of N-TiO<sub>2</sub>

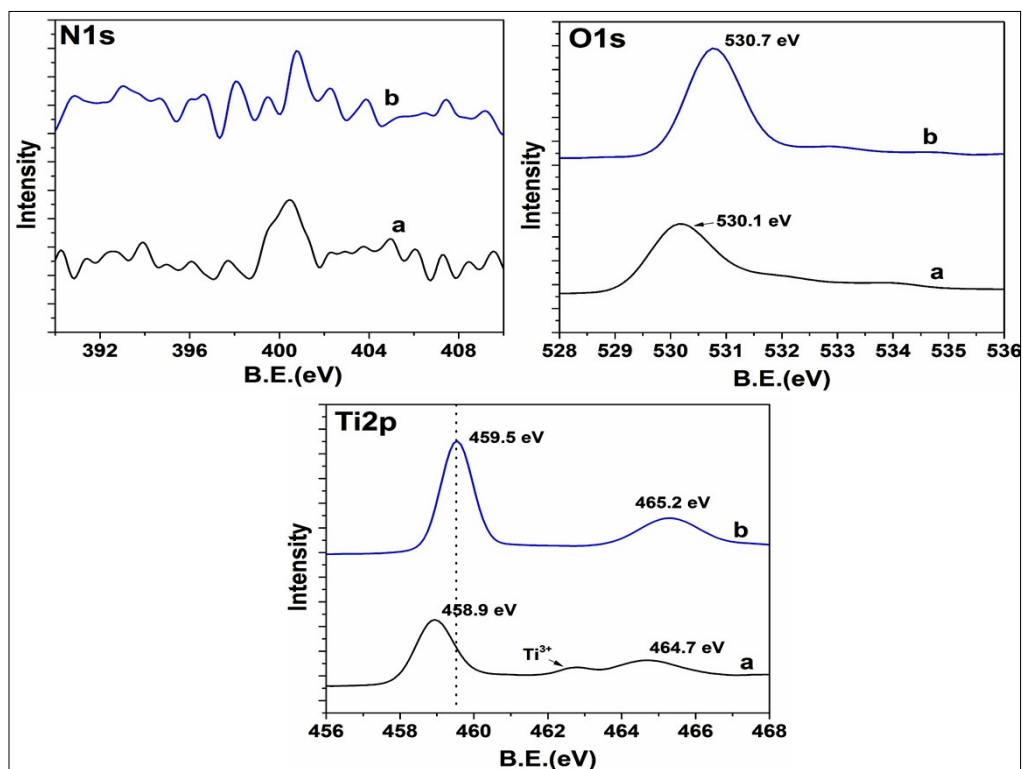


Fig. S2. XPS spectral comparison of (a): N-TiO<sub>2</sub> and (b): P25.

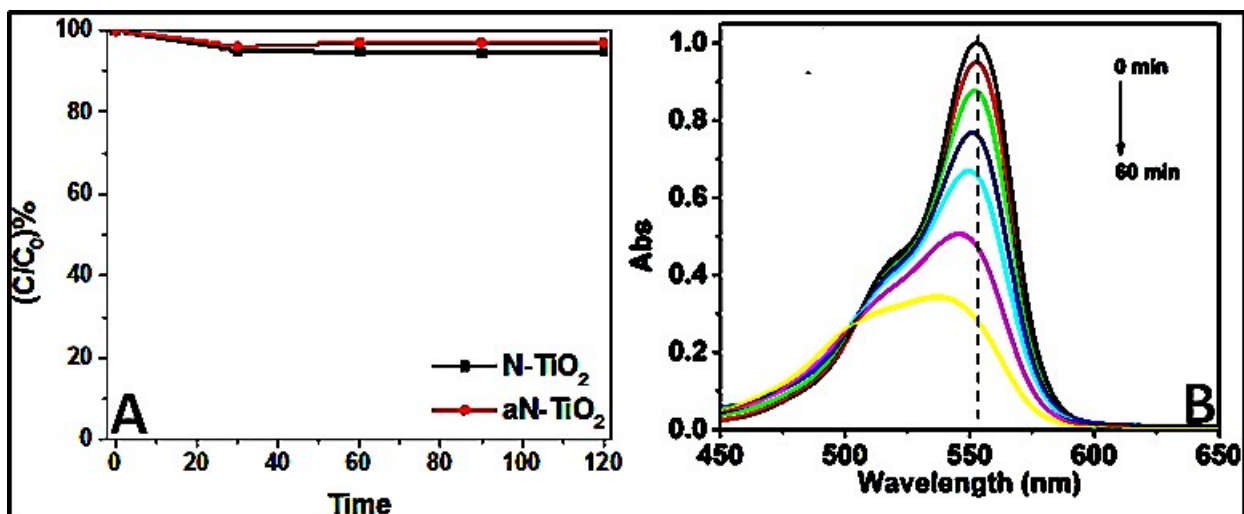


Fig. S3. (A): Adsorption of RhB for 2 hrs under dark condition and (B): Absorption spectra of RhB during visible light photodegradation monitoring by N-TiO<sub>2</sub>.

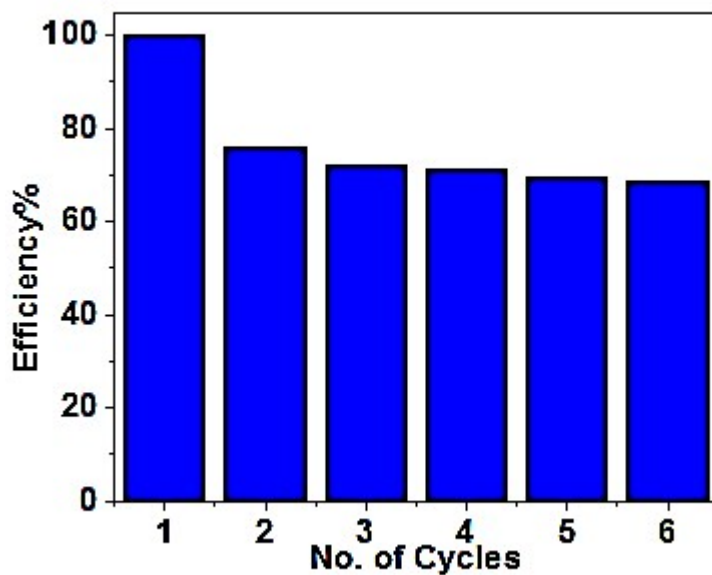


Fig. S4. Recycling studies of aN-TiO<sub>2</sub> in the photodegradation of RhB.

#### References:

1. S. A. Ansari, M. M. Khan, S. Kalathil, A. Nisar, J. Lee and M. H. Cho, *Nanoscale*, 2013, 5, 9238–9246.