

Electronic Supplementary Information

Fig. S1 FESEM images of TiN precursor powder: (a) low and (b) high resolution



Fig. S2 (a) TEM image of a single N-doped TiO_2 nanorod, (b) HRTEM image of the tapered tip in N-doped TiO_2 nanorod, the inset is corresponding SEAD pattern in the tip region, and (c) the schematic orientation relations of the {111} facets on the tapered tip.



Fig. S3 HRTEM images of TiO₂ nanocrystals from products hydrothermal treated for (a) 1 hr and (b) 2 hrs.



Fig. S4 (a) FESEM image and (b) XRD pattern of the product hydrothermal treated at 180 °C for 12 hrs without HCl.

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Fig. S5 Plots of (α hv)n vs. hv for the N-doped TiO₂ nanorods: (a) n=1/2 and (b) n=2