Supplementary Information

Enhanced absorption of TiO$_2$ nanotubes by N-doping and CdS quantum dots sensitization: Insight into the structure

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![Fig. S1 SEM images of the: a) undoped and b) doped TiO$_2$ film after 48 h immersion in CdS QDs colloid.](image)

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Fig. S2 XPS wide scan spectra of: a) undoped and b) doped sample (measured as received). A zoom, where the N 1s line (around 400 eV) is more visible, is given in the inset.
Fig. S3 XPS wide scan spectra of the: a) undoped TiO$_2$ film with CdS and b) N-doped TiO$_2$ film with CdS.