Supplementary Information

Selective adsorption and photocatalysis of low-temperature basemodified anatase nanocrystals

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Fig. S1 N₂ adsorption isotherms of TSC60 and TAH60.



Fig. S2 Pore size distribution of TSC60 and TAH60.



(a)

(b)

Fig. S3 TEM images of (a) TSC60 and (b) TAH60.



Fig. S4 Structure of (a) Methyl orange (MO) and (b) Methylene blue (MB).



Fig. S5 Schematic representation of adsorption of (a) MO on TSC60 and (b) MB on TAH60.



Fig. S6 UV-Vis absorption spectra (left) of $\approx 10 \text{ mgL}^{-1}$ aqueous mixture of MO & MB before (OS) and after contact with (a) TSC60, (b) TAH60 and (c) P25 for 30 minutes under dark.



Fig. S7 UV-Vis absorption results of adsorption studies of $\approx 10 \text{ mgL}^{-1}$ aqueous solution of MO and MB separately (OS) with TSC60 & TSC500 (a & b) and with TAH60 & TAH500 (c & d) for 30 minutes under dark.