Supporting Information

Raspberry-like TiO_2 hollow spheres consisted of small nanocrystals towards efficient NO removal

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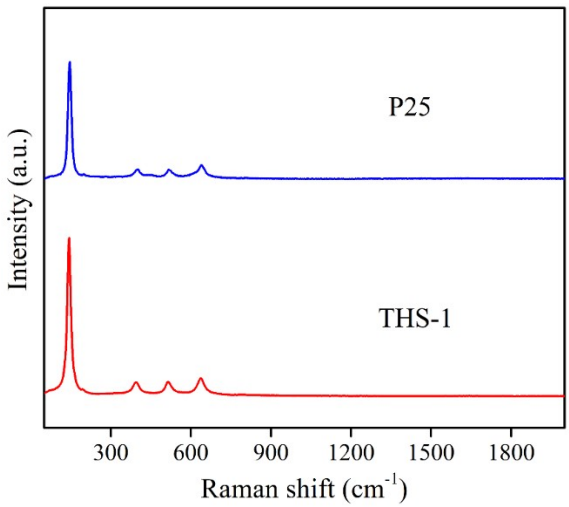

Fig. S1. Raman spectra of THS-1 and P25.

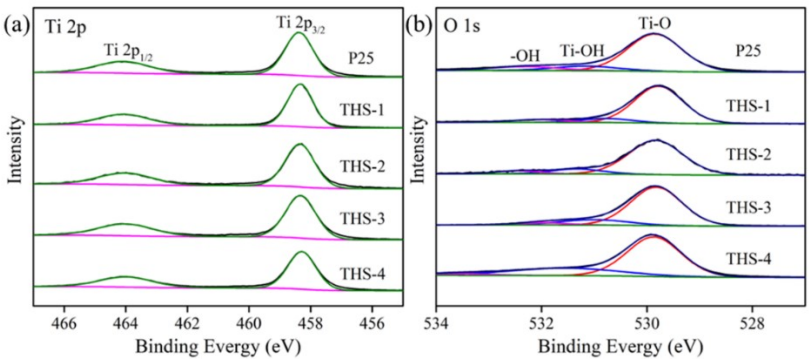

Fig. S2. XPS spectra of samples. (a) Ti 2p spectra. (b) O 1s spectra.

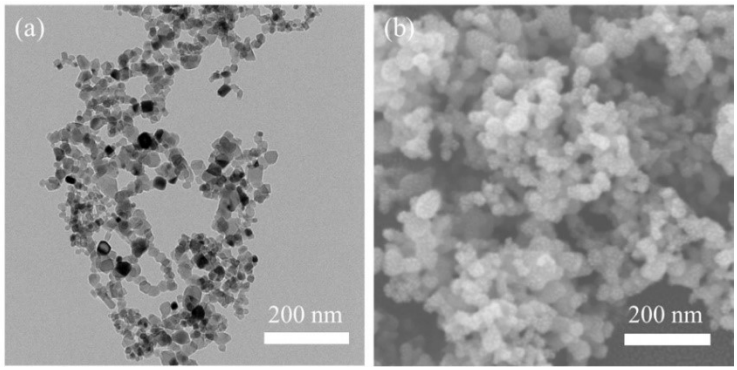

Fig. S3. (a) TEM and (b) SEM images of P25.

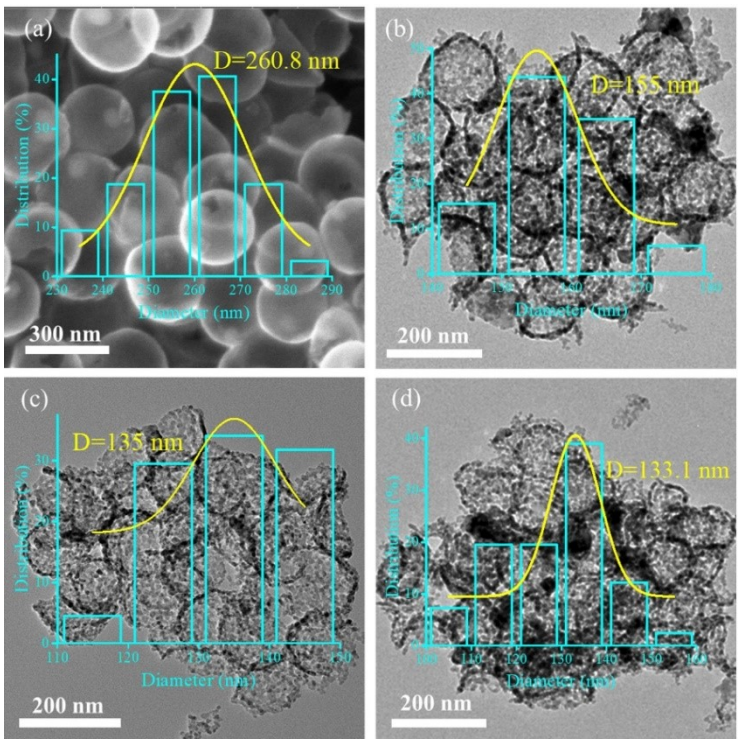

Fig. S4. SEM (a) and TEM (b to d) images of samples. (a) Hollow carbon sphere. (b) THS-1. (c) THS-2. (d) THS-3. The insets in figures show the size distribution of related samples.

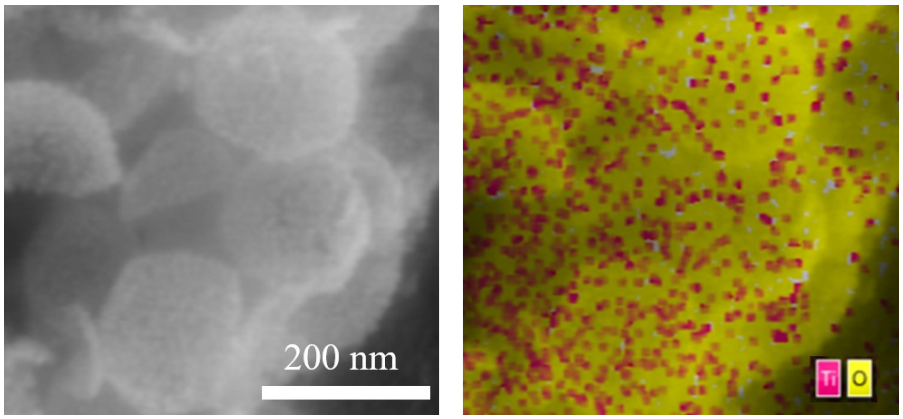

Fig. S5. SEM (right) and EDS elemental mapping (left) of THS-1. Elements Ti ns O were homogeneously distributed in specmen.

Table S1. BET surface areas (S_{BET}) and total pore volume (V_p) of as THS-1 and P25.

Sample	S_{BET} (m^2/g)	V_p (cc/g)
P25	60.6	0.133
THS-1	172.6	0.392

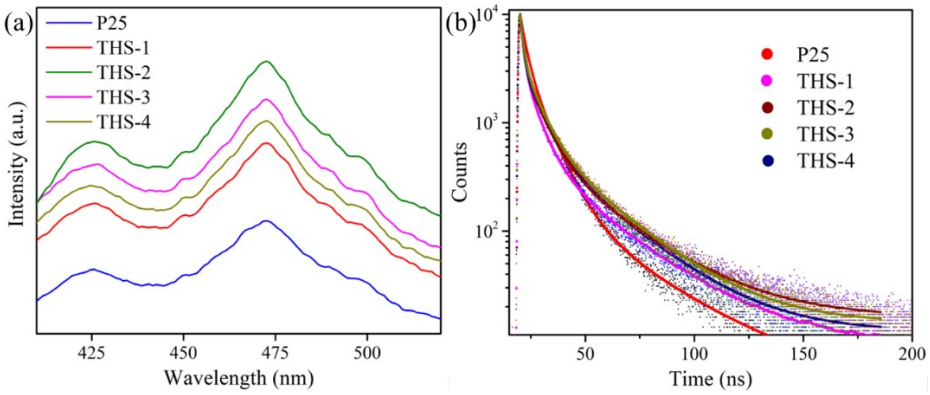

Fig. S6. (a) PL spectra (λ_{ex} = 380 nm) of samples. (b) PL decay plots (λ_{em} = 475 nm) of samples.