Electronic Supplementary Information

Hierarchical Ordered Macro/mesoporous Titania with Highly Interconnected Porous Structure for Efficient Photocatalysis

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Figure S1. SEM images of (a) SiO$_2$ colloidal crystal arrays using uniform silica spheres of ~480 nm, (b) SiO$_2$ colloidal crystal impregnated with phenolic resin, (c) the 3-D ordered macroporous carbon (3DOMC) obtained after HF etching, (d) the corresponding magnified FESEM image of c.
**Figure S2.** TEM image of HOPT viewed along the (111) plane
Figure S3. SAXS pattern of the HOPT, indicating an ordered mesosturcutre.
Figure S4. XPS core-level spectra of O1s (a) and Ti2p (b) for the HOPT.
Figure S5. TGA curve of the HOPT materials
Figure S6. Comparison of the photocatalytic activity of HOPT, P25 and TiO\textsubscript{2} hollow microspheres samples for the photocatalytic degradation of RhB in aqueous solutions.
Figure S7. The *in-situ* Fourier transform infrared spectroscopy analysis of HOPT after photocatalysis. It indicates that no organic species were retained in the photocatalysts after catalysis.
Figure S8. The photo image of the HOPT after photocatalysis. It indicates that the recycled HOPT is the same with the pristine sample in appearance, indicating a complete degradation of RhB solutions.
Figure S9. TEM image of HOPT after degradation of RhB.
Figure S10. The UV–vis absorption spectra of HOPT and P25