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Supplementary Material

Facile one-pot synthesis of carbon incorporated three-dimensional hierarchical TiO₂ nanostructures for highly efficient pollutant removal

Shiping Xu*, Yuan Gao, Xiang Sun, Min Yue, Qinyan Yue, Baoyu Gao Shandong Key Laboratory of Water Pollution Control and Resource Reuse, School of Environmental Science and Engineering, Shandong University, Jinan 250100, China Email: shiping.xu@sdu.edu.cn



Fig. S1 Elemental mapping of Ti, O, C elements of C_{RF}-TiO₂



Fig. S2 TGA analysis of C_{RF} -TiO₂ under atmospheric conditions.



Fig. S3 Fitted curve of GR adsorption kinetics on C_{RF}-TiO₂ using intraparticle diffusion model.



Fig. S4 XPS high-resolution spectra of O 1s in C_{RF} -TiO₂ before and after GR adsorption.



Fig. S5 TOC decay curve of GR solution with C_{RF} -TiO₂ as photocatalyst under UV irradiation.