Electronic Supplementary Information

Facile fabrication of metal-free urchin-like g-C_3N_4 with superior photocatalytic activity

Lei Luo[a], Anfeng Zhang[a], Michael J. Janik[b], Chunshan Song[ac]* and Xinwen Guo[a]*

a State Key Laboratory of Fine Chemicals, PSU-DUT Joint Center for Energy Research, School of Chemical Engineering, Dalian University of Technology, Dalian 116024, P. R. China. E-mail: guoxw@dlut.edu.cn

b EMS Energy Institute, PSU-DUT Joint Center for Energy Research and Department of Energy & Mineral Engineering, Pennsylvania State University, University Park, Pennsylvania 16802, United States. E-mail: csong@psu.edu

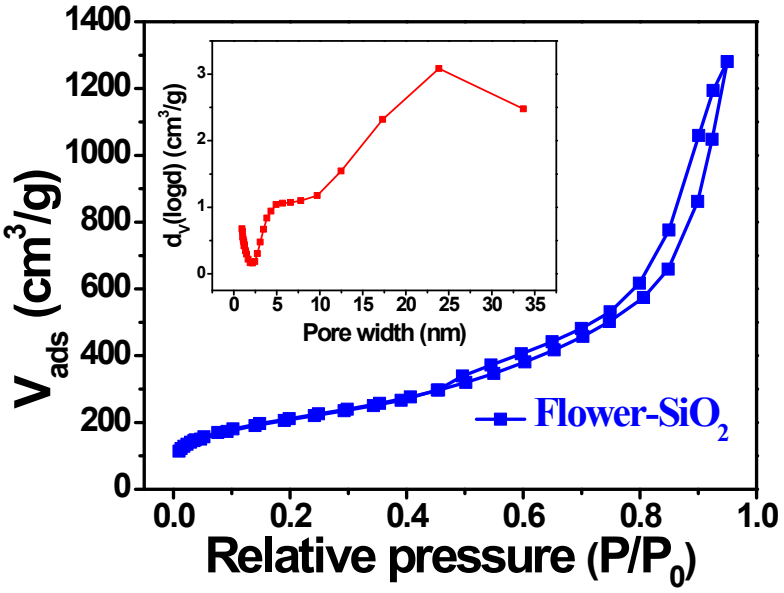

Fig. S1. N_2 physical adsorption of the flower-SiO_2 templates.

Table S1. Textual properties of sample KIT-6.

Sample	S_{BET} (m^2/g)	V_{pore} (cm^3/g)
KIT-6	762.0	2.00

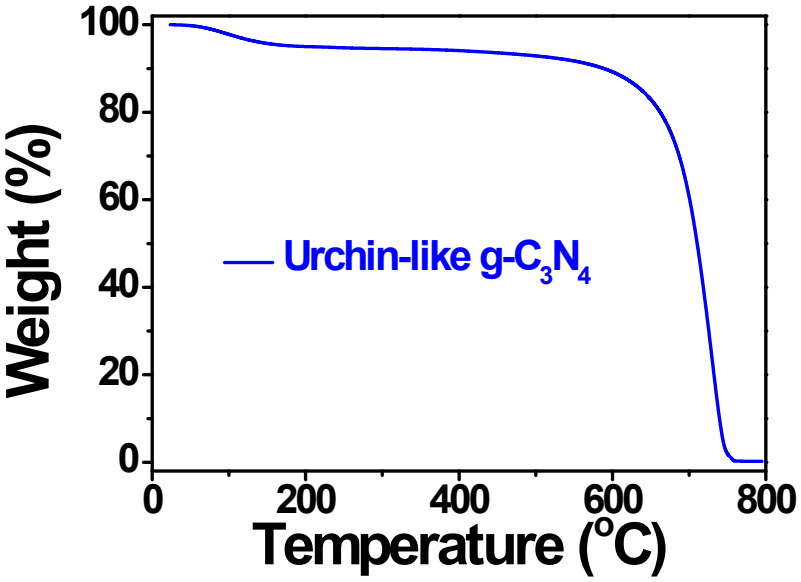

Fig. S2. TGA curve of sample UCN80.

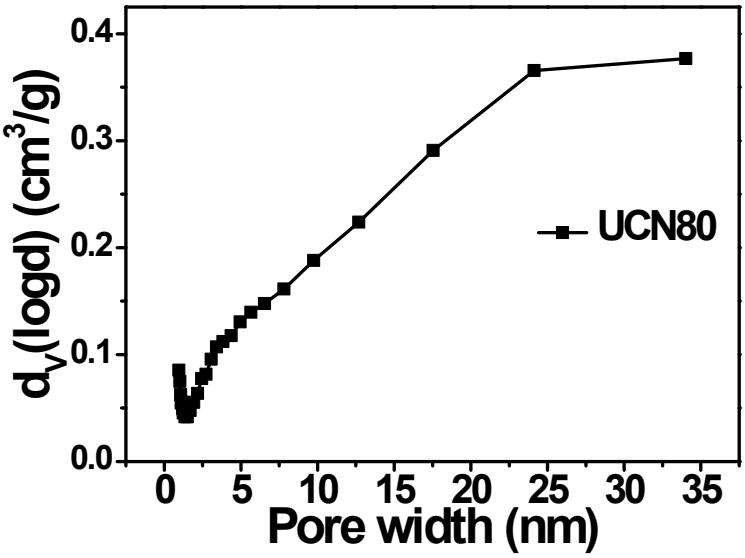

Fig. S3. Pore size distribution of sample UCN80 calculated from BJH method.

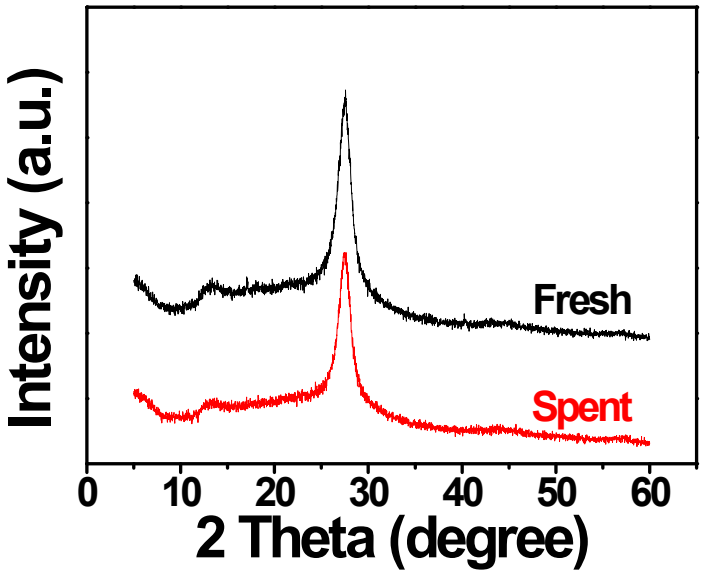

Fig. S4. XRD patterns of the fresh and spent sample UCN80.

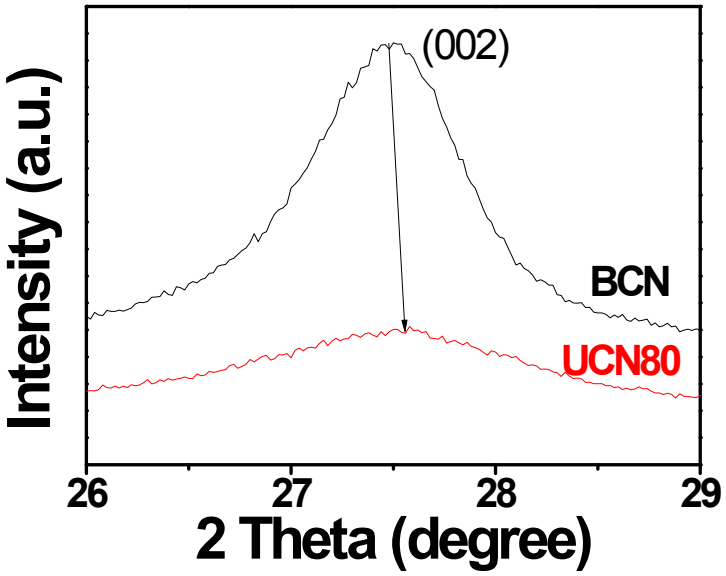

Fig. S5. The expanding region of XRD patterns of BCN and UCN80.

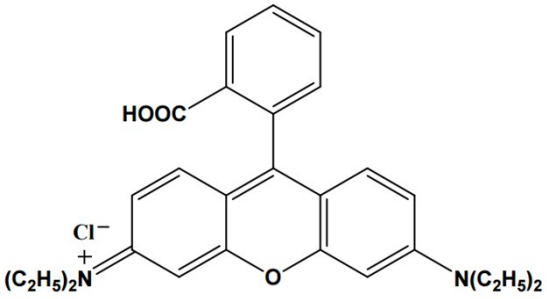

Fig. S6. Molecular structure of RhB.