Supporting Information

Facile and sustainable synthesis of carbon-doped ZnO nanostructures

towards the superior visible light photocatalytic performance

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UV-vis diffuse reflectance spectra of the B-ZnO and C-ZnO-500

Figure S1. UV-vis diffuse reflectance spectra of the B-ZnO and C-ZnO-500.



SEM images of the B-ZnO and C-ZnO-500 photocatalyst

Figure S2. SEM images of the (a and b) B-ZnO and (c and d) C-ZnO-500 photocatalyst.



Figure S3. (a-c) TEM and HR-TEM images at different magnifications of the C-ZnO-500.

Photocatalytic degradation of RhB as a function of the visible light exposure over B-ZnO, C-ZnO-500, C-ZnO-600, and C-ZnO-700



Figure S4. Photocatalytic degradation of RhB as a function of the visible light exposure over B-ZnO, C-ZnO-500, C-ZnO-600, and C-ZnO-700.



Photocatalytic degradation of RhB in the presence of different scavenger reagents

Figure S5. The C/C₀ plot for the degradation of RhB in the presence of different scavenger reagents.