Supplementary Information

Hierarchical Flower-like Co_{3-x}Fe_xO₄ ferrite Hollow Spheres: Facile Synthesis and Catalysis in the Degradation of Methylene Blue

Jinhui Hao,^{a,c} Wenshu Yang,^{a,c} Zhe Zhang,^a Shunhao Pan,^{b,c} Baoping Lu,^{a,c} Xi Ke,^{a,c} Bailin Zhang,^a and Jilin Tang^{*a}

^aState Key Laboratory of Electroanaytical Chemistry, ^bState Key Laboratory of Rare

Earth Resource Utilization, Changchun Institute of Applied Chemistry, Chinese

Academy of Sciences, Changchun 130022, (P. R. China)

E-mail: jltang@ciac.jl.cn; Fax: +86 431-85262734; Tel: +86 431-85262734

^cGraduate School of the Chinese Academy of Sciences, Beijing, 100039 (P.R. China)

Legends

- Figure S1. XRD patterns of SiO₂@IHO spheres (a) and CF hollow spheres (b).
- Figure S2. EDX spectrum of CF hollow spheres.
- Figure S3. XPS spectrum of CF hollow spheres: (A) Co 2p and (B) Fe 2p XPS spectrum.
- **Figure S4.** TEM images of products obtained with different molar ratio of CoCl₂ and urea: (A) 1:0.6, (B) 1:3, and (C) 1:6.

Figure S1. XRD patterns of SiO₂@IHO spheres (a) and CF hollow spheres (b).



Figure S2. EDX spectrum of CF hollow spheres.



Figure S3. XPS spectrum of CF hollow spheres: (A) Co 2p and (B) Fe 2p XPS spectrum.



Figure S4. TEM images of products obtained with different molar ratio of $CoCl_2$ and urea: (A) 1:0.6, (B) 1:3, and (C) 1:6.

