

Supporting information for

**Two-step self-assembly of iron oxide into three-dimensional hollow
magnetic porous microspheres and their toxic ion adsorption
mechanism**

Yong Jia^{†, ‡}, Xin-Yao Yu[†], Tao Luo[†], Mei-Yun Zhang[†], Jin-Huai Liu[†], and Xing-Jiu
Huang^{*, †}

[†] Research Center for Biomimetic Functional Materials and Sensing Devices, Institute
of Intelligent Machines, Chinese Academy of Sciences, Hefei 230031, People's
Republic of China

[‡] Department of Pharmacy, Anhui University of Traditional Chinese Medicine, Hefei
230031, People's Republic of China

* Address correspondence to xingjiuhuang@iim.ac.cn (X.J.H)

[†] Chinese Academy of Sciences. [‡] Anhui University of Traditional Chinese Medicine.

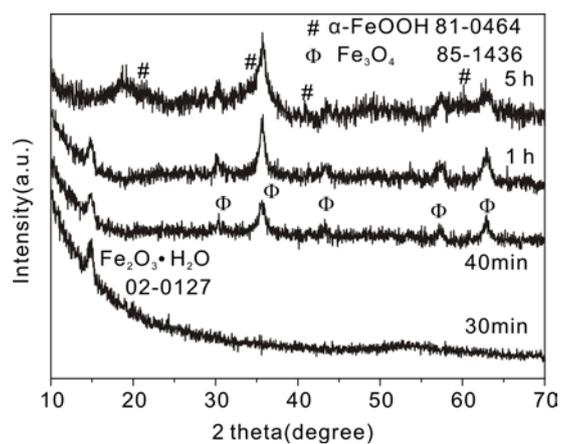


Fig. S1 XRD patterns of the intermediate products synthesized at the initial stage.

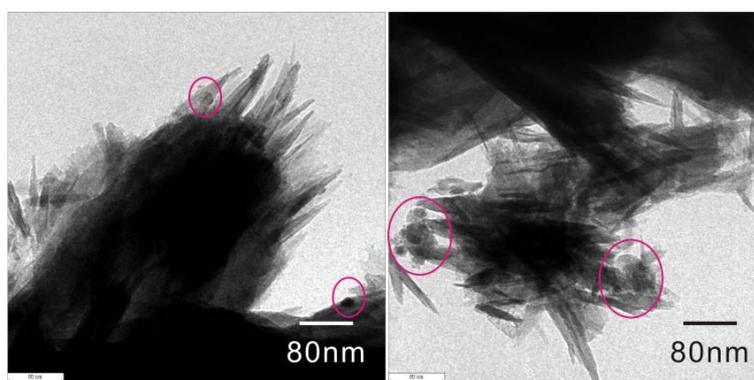


Fig. S2. TEM images of the nanosheets resulted from the self-assembly of the nanoparticles and the nanoneedles. The red circles present the nanoparticles.

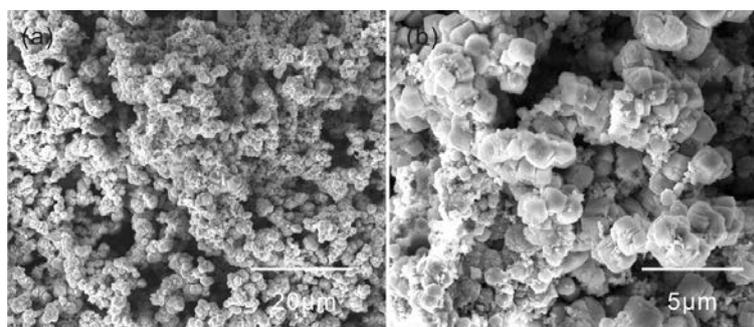


Fig. S3. SEM images of the products prepared without using EG.

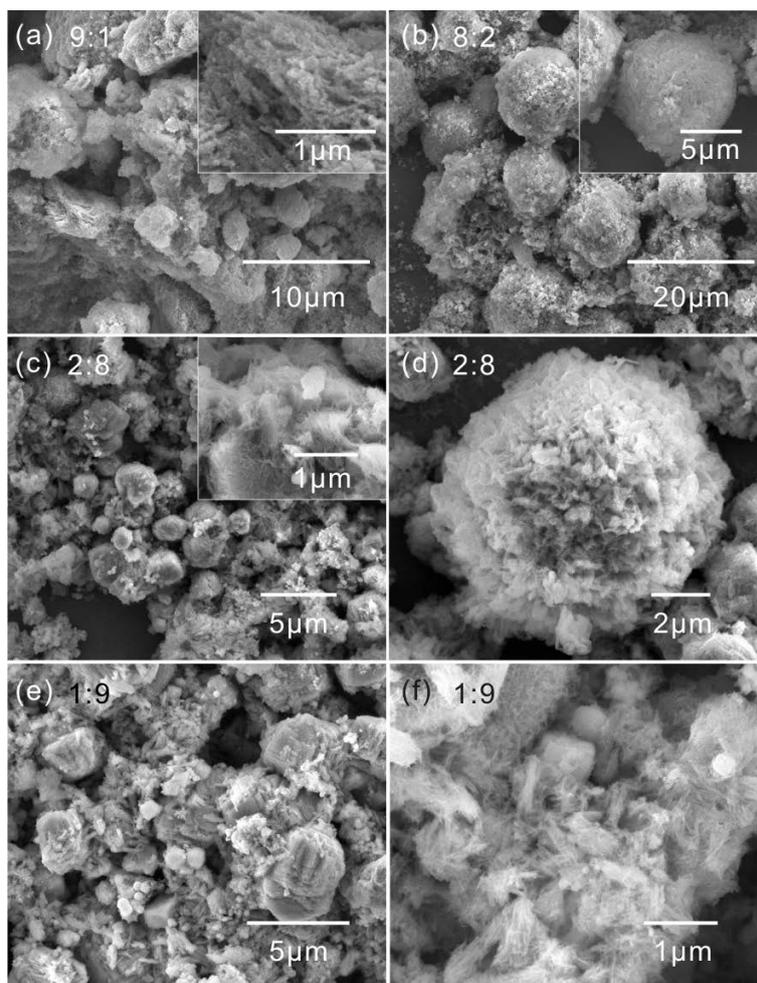


Fig. S4. SEM images of the products prepared with different volume ratios of EG and water.

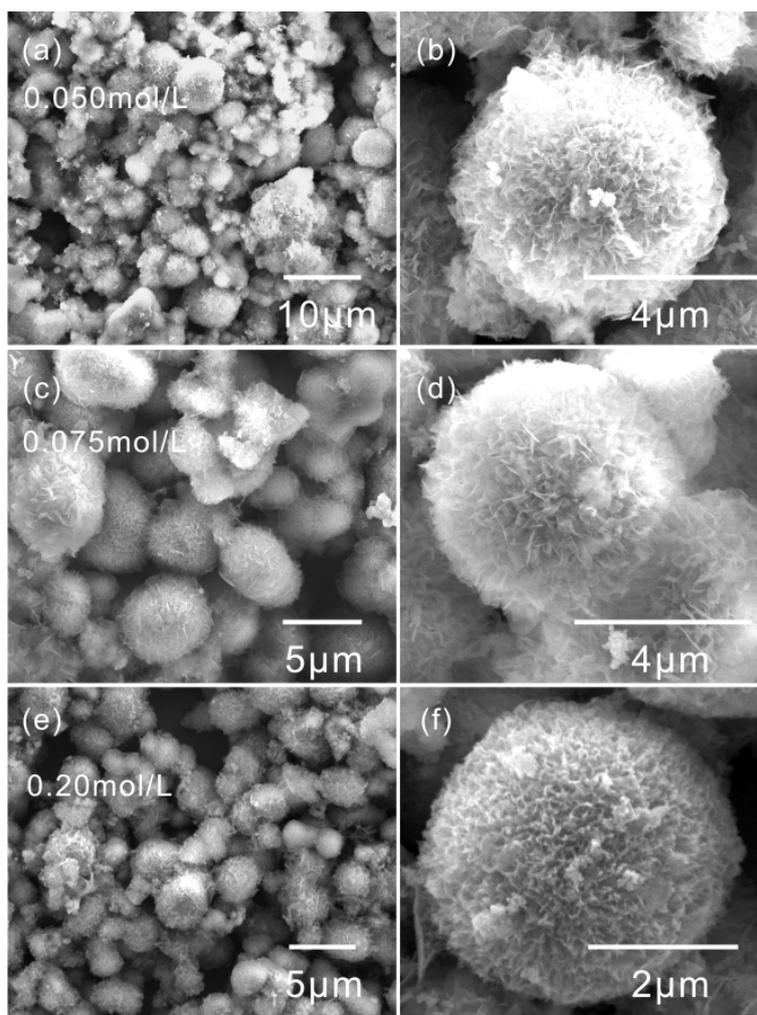


Fig. S5. SEM images of the products prepared with different concentrations. (a), (b) 0.050 mol/L; (c), (d) 0.075 mol/L; (e), (f) 0.20 mol/L.