**Supplementary Information**

**Efficient microwave absorption achieved through *in situ* construction of** **core–shell CoFe2O4@mesoporous carbon hollow spheres**

*Lianggui Ren*1,2), *Yiqun Wang*1), 🖂, *Xin Zhang*1, *Qinchuan He*1, *and* *Guanglei Wu*2), 🖂

1) College of Materials and Chemistry & Chemical Engineering, Chengdu University of Technology, Chengdu 610059, China

2) Institute of Materials for Energy and Environment, State Key Laboratory of Bio-fibers and Eco-textiles, College of Materials Science and Engineering, Qingdao University, Qingdao 266071, China

🖂Corresponding authors: Yiqun Wang E-mail: wangyiqun17@cdut.edu.cn; Guanglei Wu E-mail: wuguanglei@qdu.edu.cn, wuguanglei@mail.xjtu.edu.cn



**Fig. S1. (a-d) SEM image of MCHS when ethanol/water is 7:1, and the TPOS/TEOS is 1 (a), 0.25 (b), 0.5 (c) and 0.75 (e), respectively. (e-f) When ethanol/water is 6:2, and the TPOS/TEOS is 1 (e), 0.25 (f), 0.5 (g) and 0.75 (h), respectively.**