## **Supplementary Information**

## Facile Synthesis of Magnetic Core-Shell Structures for Tunable

## **Microwave Absorption**

Jiao Liu<sup>a</sup>, Xukang Han<sup>a</sup>, Wenjuan Ren<sup>a</sup>, Longqiang Liang<sup>b</sup>, Xiyao Wang<sup>a</sup>,

Di Lan<sup>c</sup>, Mingliang Ma<sup>a</sup>\*, Shengtao Gao<sup>d\*</sup>

<sup>a</sup> School of Civil Engineering, Qingdao University of Technology, Qingdao 266520, People's Republic of China

<sup>b</sup> Qingdao Shamu new material Co., LTD, Qingdao 266113, People's Republic of China

<sup>c</sup> School of Materials Science and Engineering, Hubei University of Automotive Technology, Shiyan 442002, P.R. China

<sup>d</sup> School of Chemical Engineering and Blasting, Anhui University of Science and Technology, Anhui 232001, People's Republic of China

\*Correspondence author:

Name: Mingliang Ma

Email address: mamingliang@qut.edu.cn

Name: Shengtao Gao

Email address: shtgao@aust.edu.cn



Fig. S1 SEM images of CC (a) and SCC (b); EDS images of SCC (c-f).



Fig. S2 Cole-Cole of SC (a) and CC (b).



Fig. S3 RCS simulation images of PEC (a), SC (b) and CC (c); RSC values of PEC (a1),

SC (b1) and CC (c1) from -60°~60°.