Supporting Information

Efficient S-band Electromagnetic Wave Absorption in Hierarchically Hollow CoFe2O4/C Nanocomposites Modified by ZIF-67 Derivatives

Ze Cai[1]‡, Peishuo Sun[1]‡, Lutfia Isna Ardhayanti[1], Md. Saidul Islam[1]*, Tatsuki Tsugawa,[2] Keita Kuroiwa[3], Yoshihiro Sekine[1,4,] Shintaro Ida,[2,5] Shinya Hayami[1,5,6]*

1. Department of Chemistry, Graduate School of Science and Technology, Kumamoto University, 2-39-1 Kurokami, Chuo-ku, Kumamoto 860-8555, Japan.

2. Faculty of Engineering, Graduate School of Science and Technology, Kumamoto University, 2-39-1 Kurokami, Chuo-ku, Kumamoto 860-8555, Japan.

3. Department of Nanoscience, Faculty of Engineering, Sojo University, 4-22-1 Ikeda, Nishi-ku, Kumamoto 860-0082, Japan.

4. Priority Organization for Innovation and Excellence, Kumamoto University, 2-39-1 Kurokami, Chuo-ku, Kumamoto 860-8555, Japan.

5. Institute of Industrial Nanomaterials (IINa), Kumamoto University, 2-39-1 Kurokami, Chuo-ku, Kumamoto 860-8555, Japan.

6. International Research Center for Agricultural and Environmental Biology (IRCAEB), 2-39-1 Kurokami, Chuo-ku, Kumamoto 860-8555, Japan.

‡ Authors Contribute equally

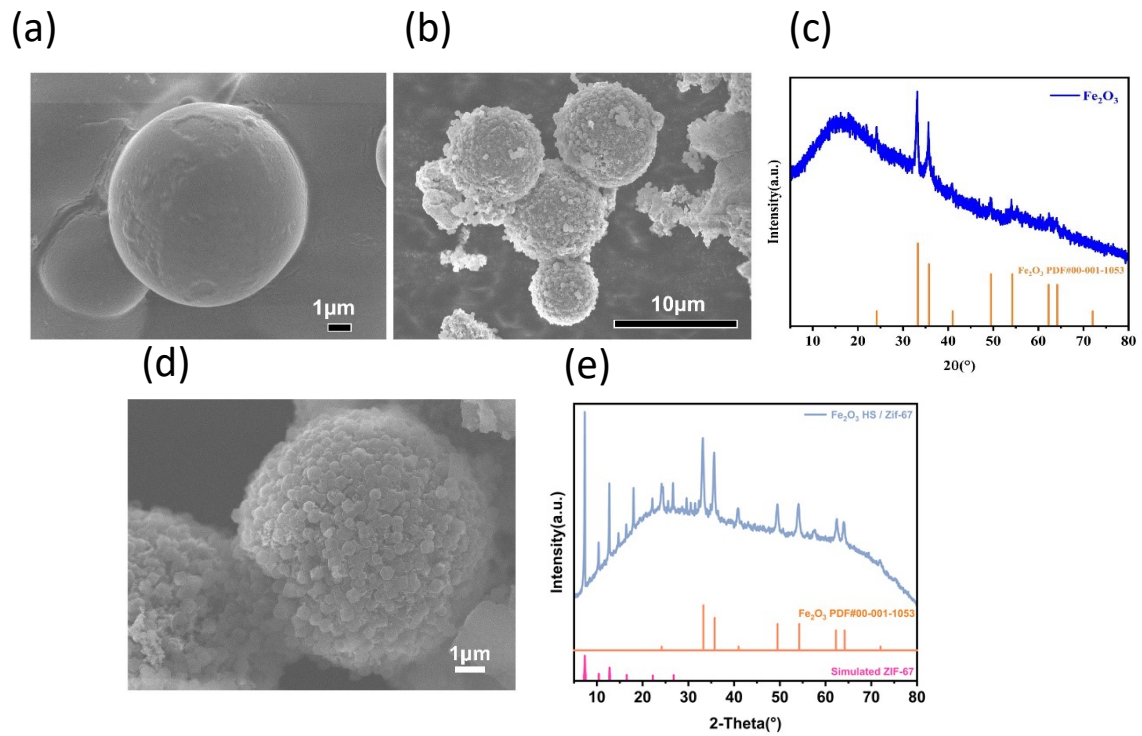

Figure S1. (a) SEM images of carbon sphere, (b) SEM images of Fe_2O_3 hallow sphere, (c) PXRD of Fe_2O_3 sphere, (d) SEM images of ZIF-67/Fe_2O_3, (e) PXRD of ZIF-67/Fe_2O_3 .

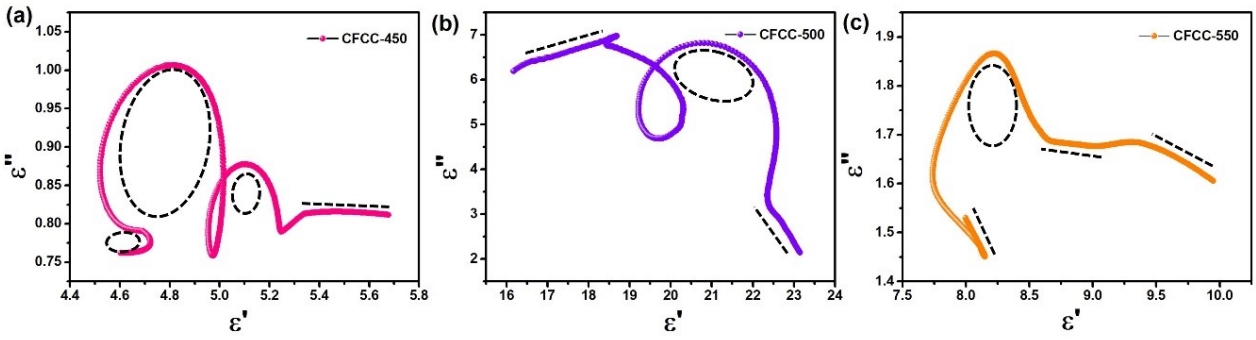

Figure S2. The Cole-Cole curves of (a) CFCC-450;(b) CFCC-500;(c) CFCC-550

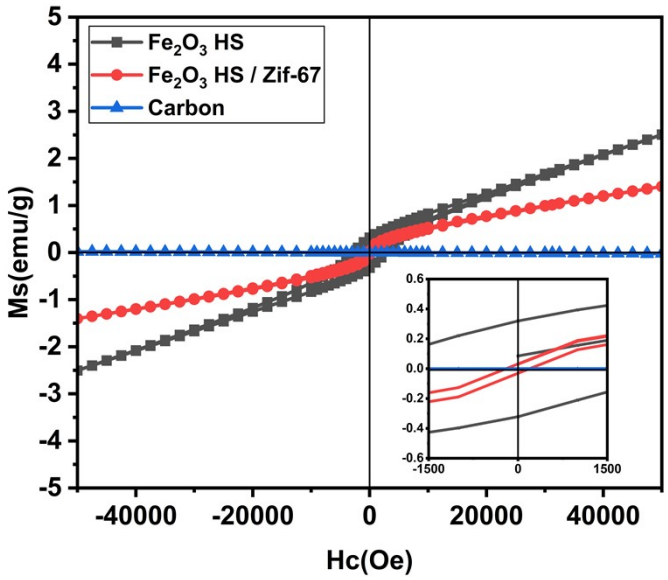

Figure S3: The magnetic hysteresis loops of carbon spheres, Fe_2O_3 and ZIF-67/Fe_2O_3 precursor.