Electronic Supplementary Information (ESI)

Novel red blood cell shape α-Fe_2O_3 microstructures and FeO(OH) nanorods as high capacity supercapacitors

Rongmei Liu,*[a] Zixiang Jiang,[a] Qi Liu,[b] Xiandong Zhu,[a] Li Liu,[a] Lu Ni[a] and Chengcheng Shen[a]

[a] College of Biological and Chemical Engineering, Anhui Polytechnic University, Wuhu Anhui 241000, P. R. China,

Fax: +86 553 2871 255; Tel: +86 553 2871 255

E-mail: liurongmei@ahpu.edu.cn

[b] College of Materials Science and Engineering, Anhui Polytechnic University, Wuhu, Anhui 241000, P. R. China.

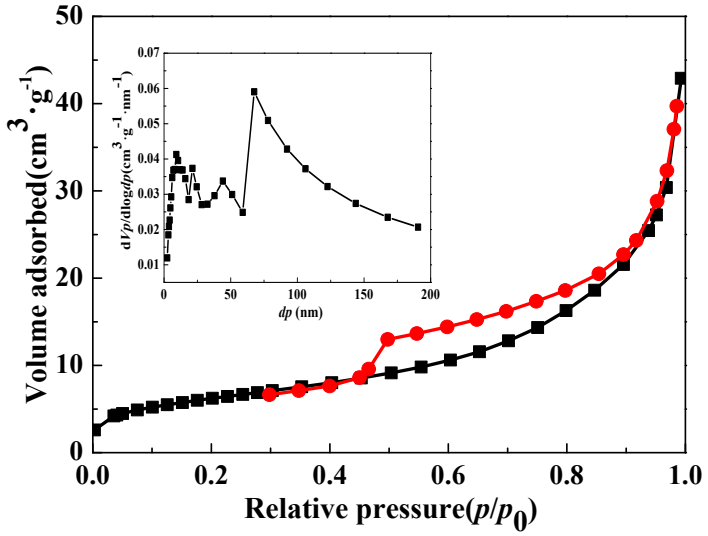

Fig. S1 Nitrogen adsorption–desorption isotherms of the as-prepared α-Fe_2O_3 microspheres. Inset: the pore size distribution.

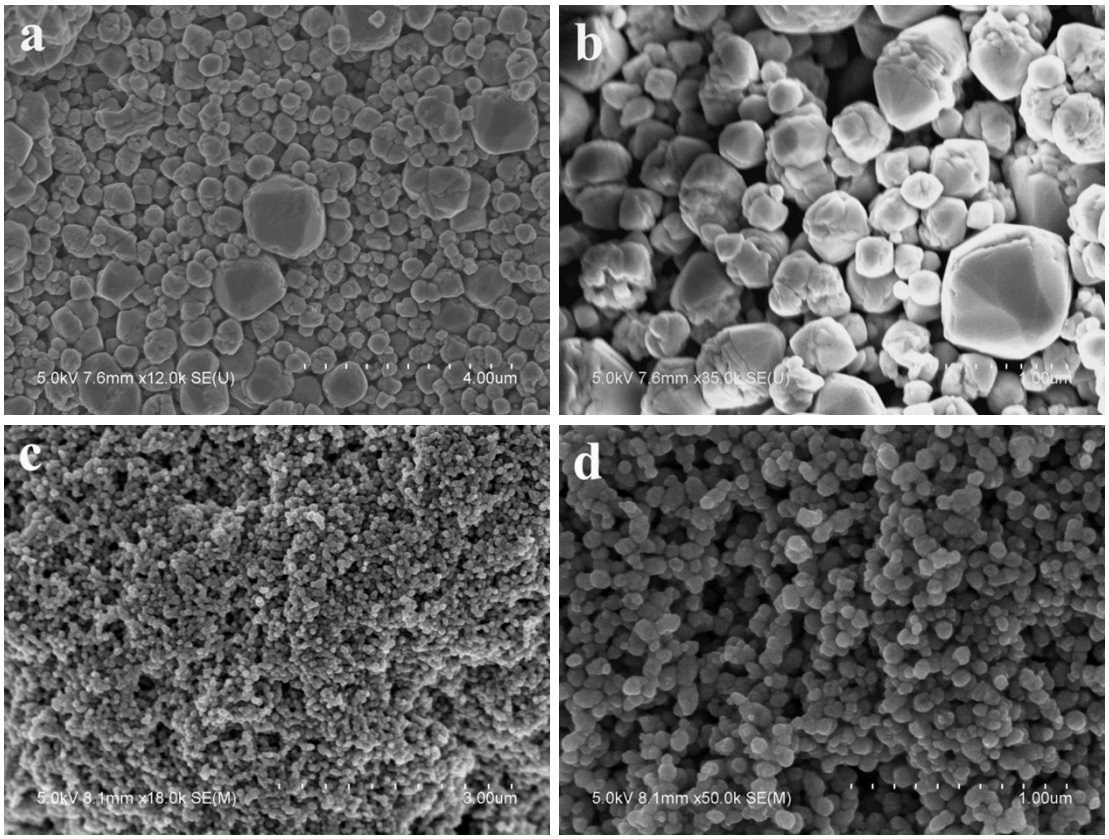

Fig. S2 SEM images of the sample prepared without the addition of (a, b) PVA and (c, d) NH_4Cl.

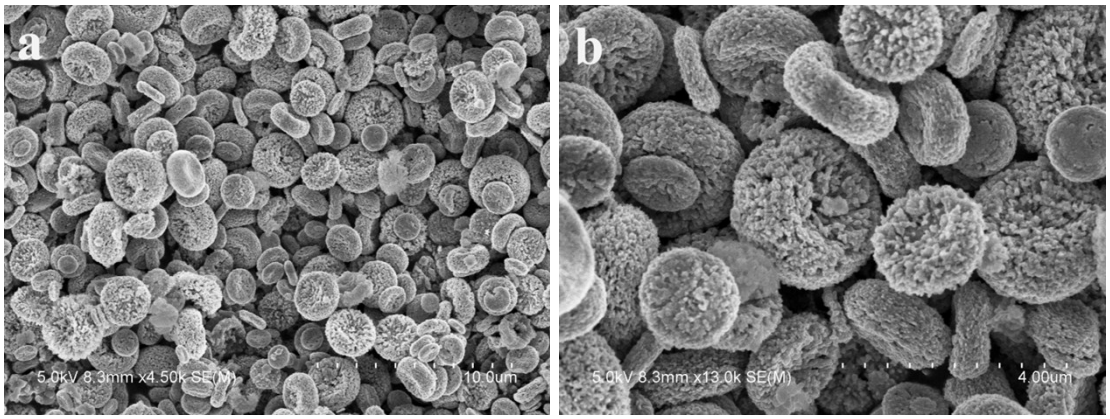

Fig. S3 SEM images of the sample prepared at 180 °C.

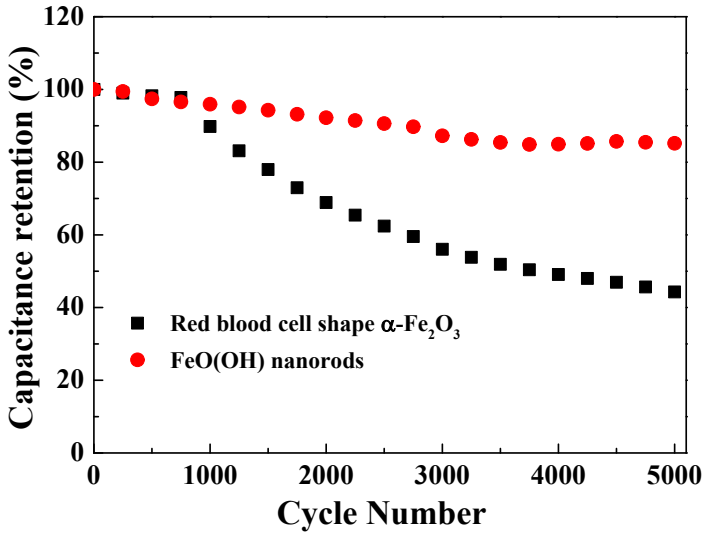

Fig. S4 Cycle performance of the samples measured at a scan rate of 50mV·s^{-1} for 5,000 cycles.