## **Supporting Information**

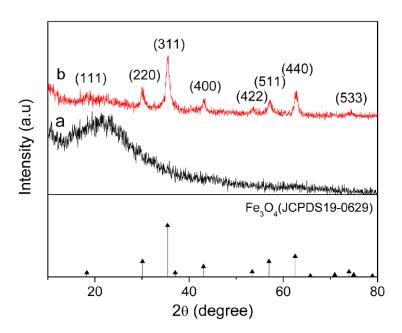


Fig. S1 XRD patterns of (a) hydrochar and (b) hydrochar coated with Fe<sub>3</sub>O<sub>4</sub>.

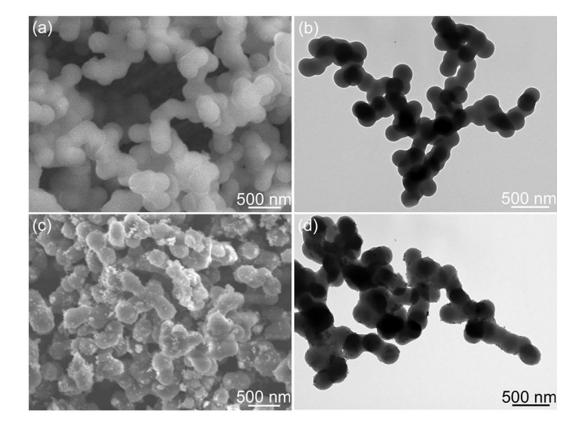


Fig. S2 SEM and TEM images of (a and b) hydrochar, (c and d) hydrochar coated with  $Fe_3O_4$  nanoparticles.