Supporting Information

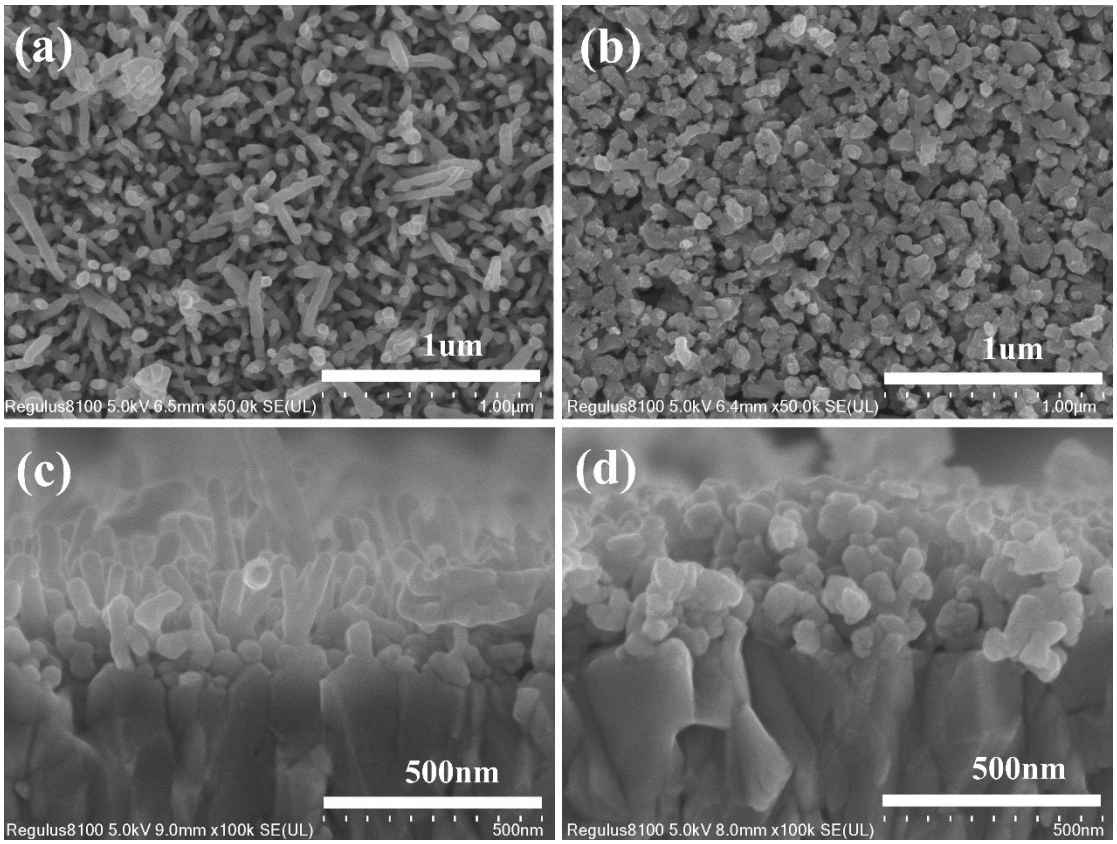

Figure S1: (a) and (b) Top-view SEM images of Fe_2O_3/g-C_3N_4-1and Fe_2O_3/g-C_3N_4-3 (c) ,(d) Cross-sectional electron microscopy (SEM) images of Fe_2O_3/g-C_3N_4-1and Fe_2O_3/g-C_3N_4-3

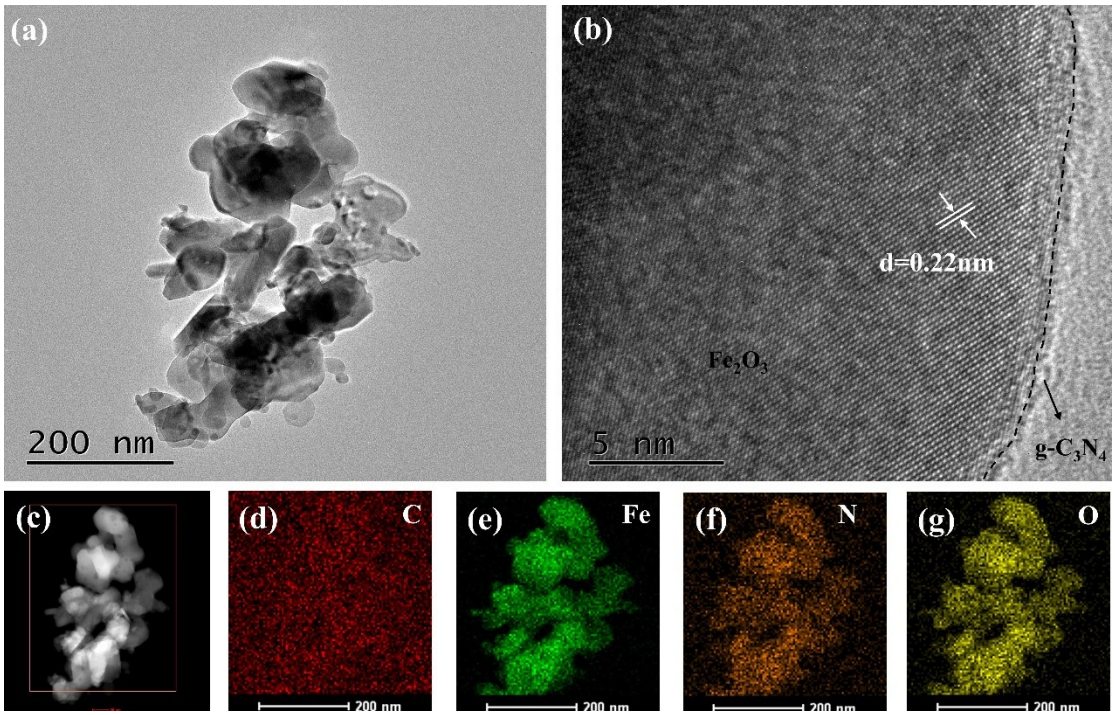

Figure S2: (a)The transmission electron microscope images (TEM) of Fe_2O_3/g-C_3N_4-2 (b)The high-resolution transmission electron microscopy image of Fe_2O_3/g-C_3N_4-2; (c)TEM image in dark-field mode of Fe_2O_3/g-C_3N_4-2; (d-g) The element mapping images of C、Fe、N、 O

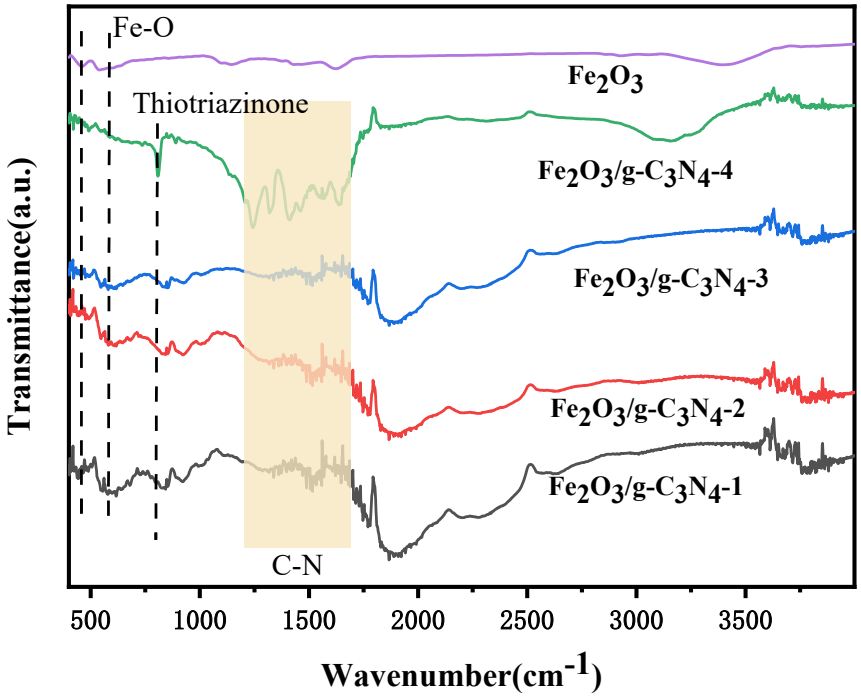

Figure S3：Fourier transform infrared spectra of Fe_2O_3、Fe_2O_3/g-C_3N_4-1、Fe_2O_3/g-C_3N_4-2、Fe_2O_3/g-C_3N_4-3 and Fe_2O_3/g-C_3N_4-4