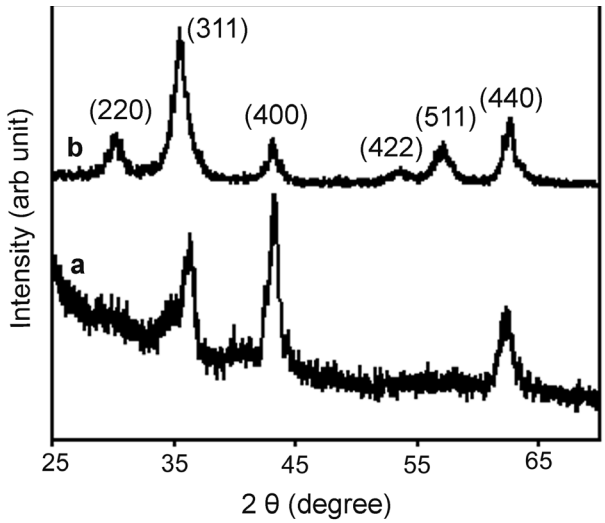

Fig. S1 XRD spectra of 10 nm iron oxide nanoparticles (a) without and (b) with oxidation by $(CH_3)_3NO$.

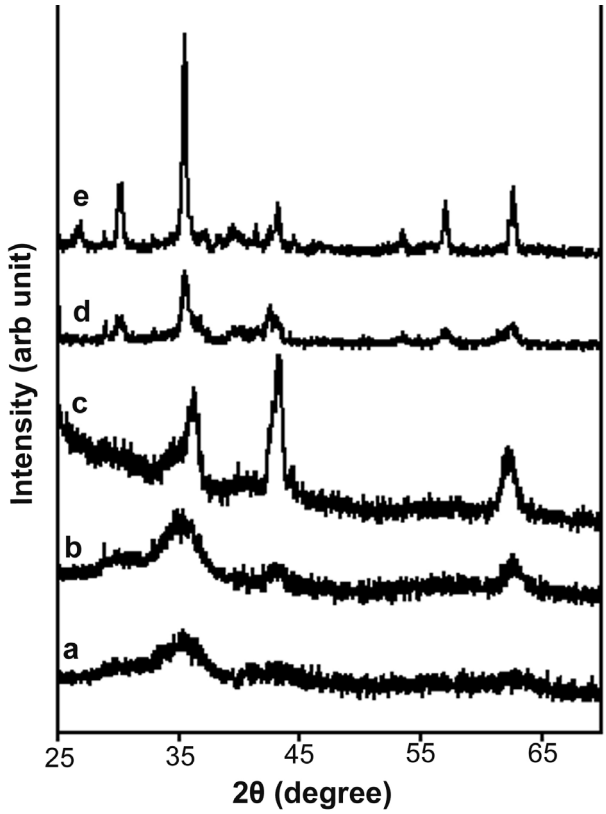

Fig. S2 XRD spectra of (a) 3, (b) 5, (c) 10, (d) 16 and (e) 25 nm iron oxide particles made without oxidation by $(CH_3)_3NO$.