Electronic Supplementary Information for:

Facile synthesis of zinc ferrite nanoparticles as non-lanthanide T_1 MRI contrast agents

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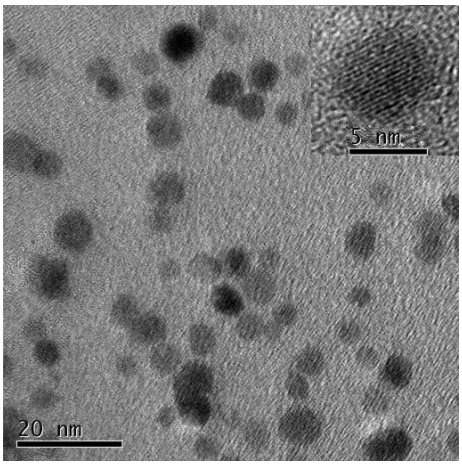

Fig. S1 TEM images of Fe_3O_4 nanoparticles, insert is the HRTEM images.

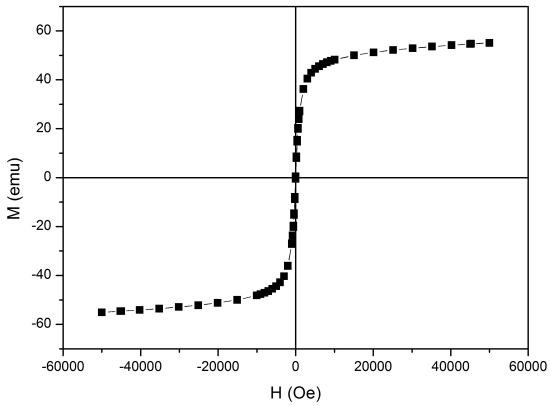

Fig. S2 Magnetization curves of the Fe_3O_4 nanoparticles at 300 K.

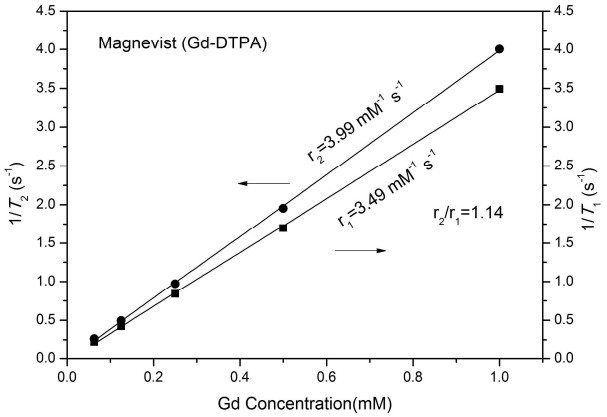

Fig. S3 The relaxation rates ($1/T_1$, $1/T_2$) plotting against the Gd concentration for Magnevist at 1.41 T.

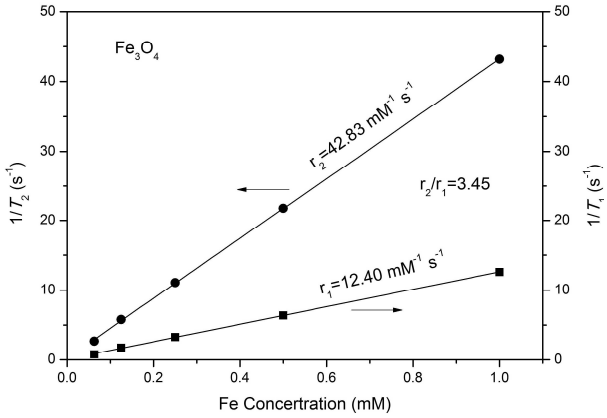

Fig. S4 The relaxation rates ($1/T_1$, $1/T_2$) plotting against the iron concentration for the aqueous solution of the Fe_3O_4 nanoparticles at 1.41 T.