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

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Fig. S1 TEM images of Fe$_3$O$_4$ nanoparticles, insert is the HRTEM images.

Fig. S2 Magnetization curves of the Fe$_3$O$_4$ 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 Fe₃O₄ nanoparticles at 1.41 T.