Electronic Supplementary Information

A cheap and facile route to synthesize monodisperse magnetic nanocrystals and application as MRI agent

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**Fig. S1** A photograph of a Petri dish containing 40 g of MnFe$_2$O$_4$ nanocrystals.
Fig. S2 XRD patterns of CoFe$_2$O$_4$ NCs synthesized for reaction time of 2 h at 270 °C, 290 °C, 310 °C and 330 °C.
**Fig. S3** TEM images of CoFe$_2$O$_4$ NCs synthesized for reaction time of 2 h at 290 °C (A, B), 310 °C (C, D), and 330°C (E, F).
Fig. S4 TEM images of CoFe$_2$O$_4$ NCs synthesized at 310 °C for reaction time of 0.5 h (A, B), 1 h (C, D), 2 h (E, F), and 4 h (G, H).