Supporting Information:

Controlled Synthesis of Monodisperse Manganese Oxides Nanocrystals

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Figure S1 TEM images of as-prepared MnO NCs. The reaction temperature was directly heated to (a) 240 ºC and (b) 300 ºC with the molar ratio of Mn(acac)$_2$:OA:OAm:dodecanol at 2:1:3:3.

Figure S2 (a) the molar ratio of Mn(acac)$_2$:dodecanol was 1:4 with 300 ºC as injection temperature and 270 ºC as growth temperature; (b) the molar ratio of Mn(acac)$_2$:OAm:dodecanol was 1:3:3 with 300 ºC as injection temperature and 270 ºC as growth temperature.
Figure S3 XRD patterns of CoO NCs synthesized at different temperatures: (a) 240 °C as injection temperature and 210 °C as growth temperature, (b) 330 °C as injection temperature and 300 °C as growth temperature,
Figure S4 XRD patterns of as-synthesized Fe$_3$O$_4$ NCs with different sizes: (a) 4 nm and (b) 8 nm.