

**Supporting Information:**

# **Controlled Synthesis of Monodisperse Manganese Oxides Nanocrystals**

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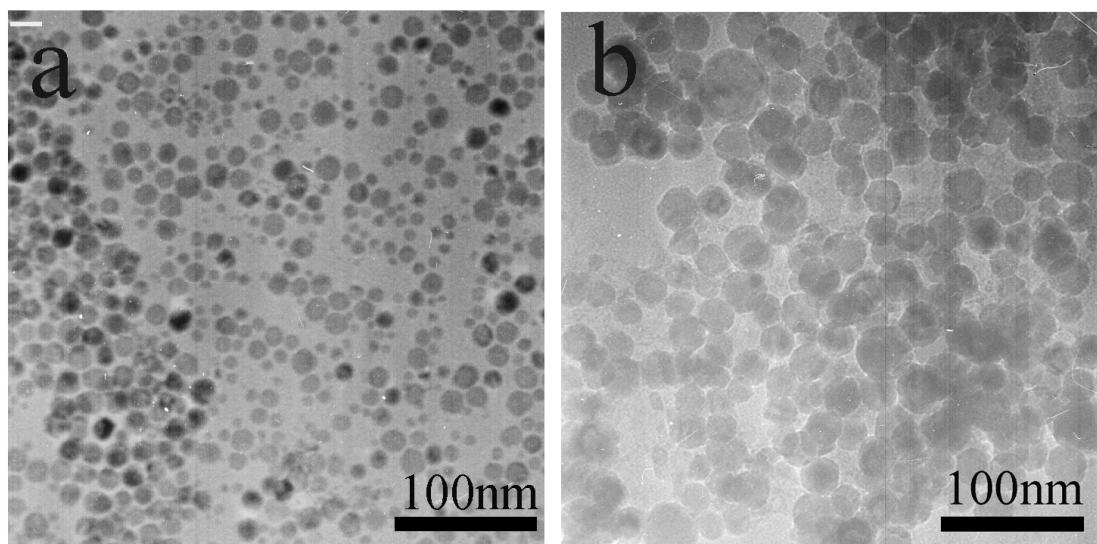


Figure S1 TEM images of as-prepared MnO NCs. The reaction temperature was directly heated to (a) 240 °C and (b) 300 °C with the molar ratio of Mn(acac)<sub>2</sub>:OA:OAm:dodecanol at 2:1:3:3.

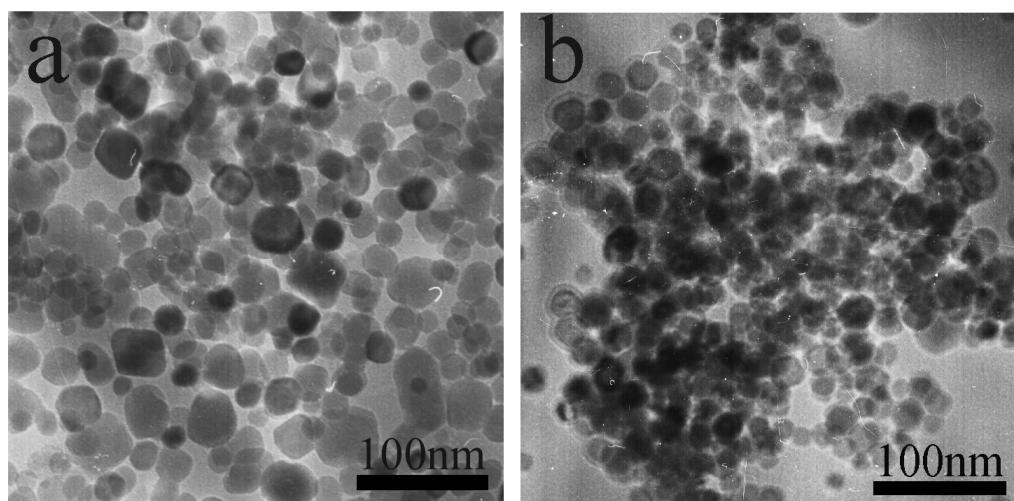


Figure S2 (a) the molar ratio of Mn(acac)<sub>2</sub>:dodecanol was 1:4 with 300 °C as injection temperature and 270 °C as growth temperature; (b) the molar ratio of Mn(acac)<sub>2</sub>:OAm:dodecanol was 1:3:3 with 300 °C as injection temperature and 270 °C as growth temperature.

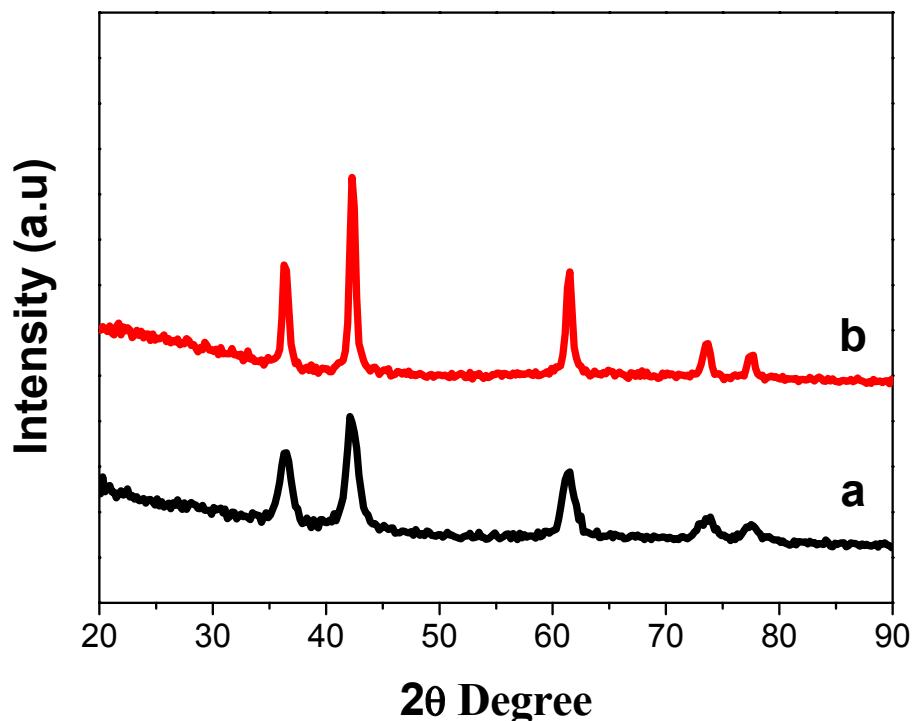


Figure S3 XRD patterns of CoO NCs synthesized at different temperatures: (a) 240 °C as injection temperature and 210 °C as growth temperature, (b) 330 °C as injection temperature and 300 °C as growth temperature,

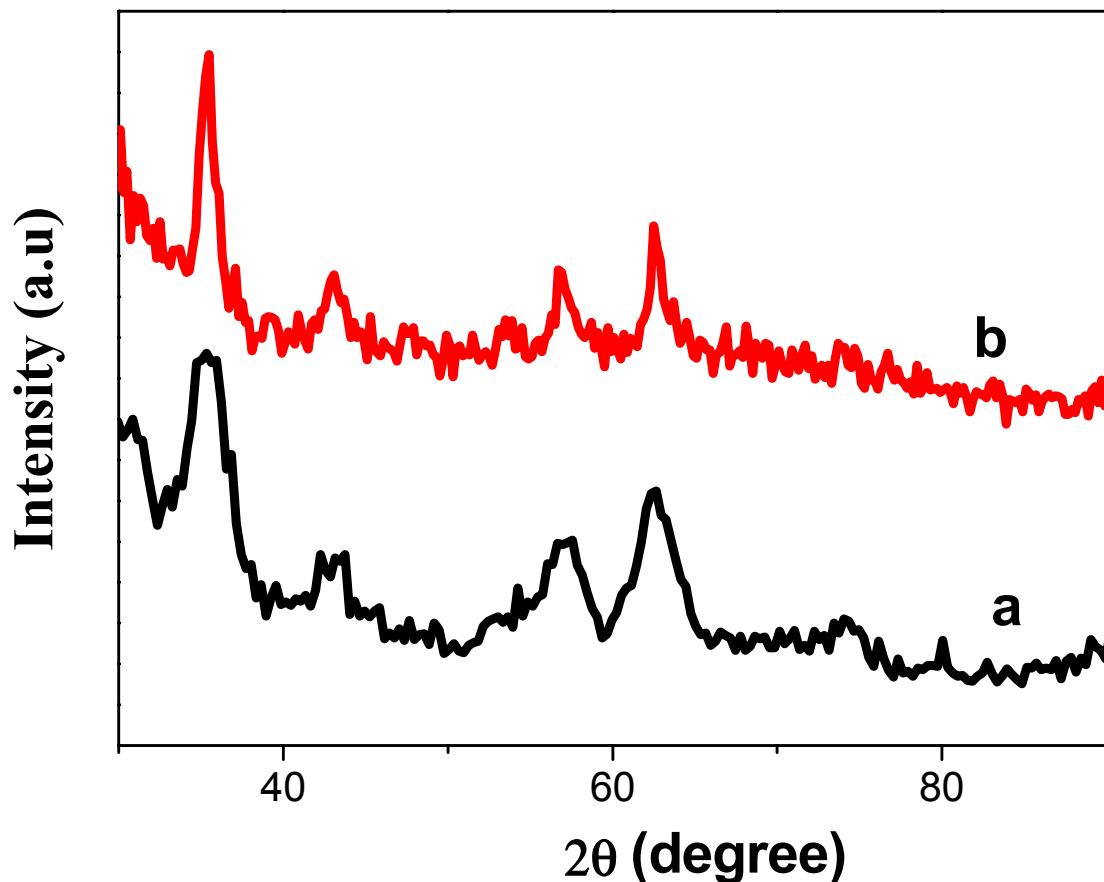


Figure S4 XRD patterns of as-synthesized Fe<sub>3</sub>O<sub>4</sub> NCs with different sizes: (a) 4 nm and (b) 8 nm.