

Supporting Information for

One-pot controlled synthesis of single-crystal α -Fe₂O₃ hollow nanostructure and its gas sensing property

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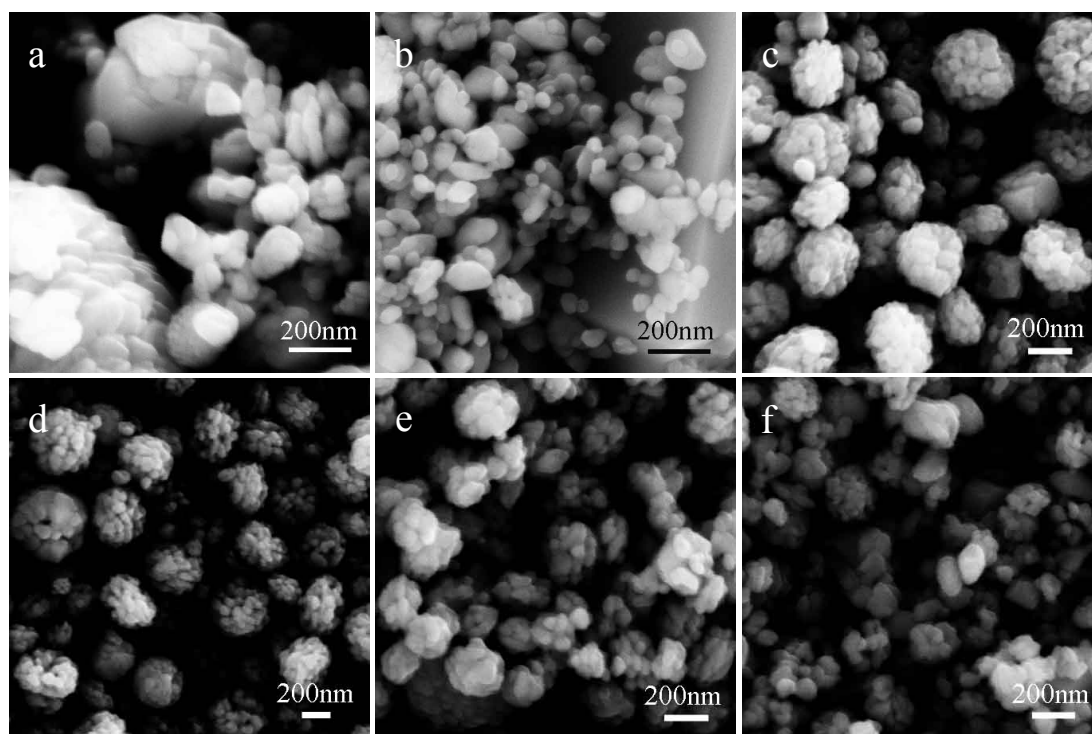


Fig. S1 SEM images of the samples prepared with different solvent ratio. (a) with 20mL of ethanol; (b) with 20mL of octanol; (c) with 15mL of octanol and 5mL of ethanol ; (d) with 10mL of octanol and 10mL of ethanol; (e) with 8mL of octanol and 12mL of ethanol; (f) with 5mL of octanol and 15mL of ethanol;

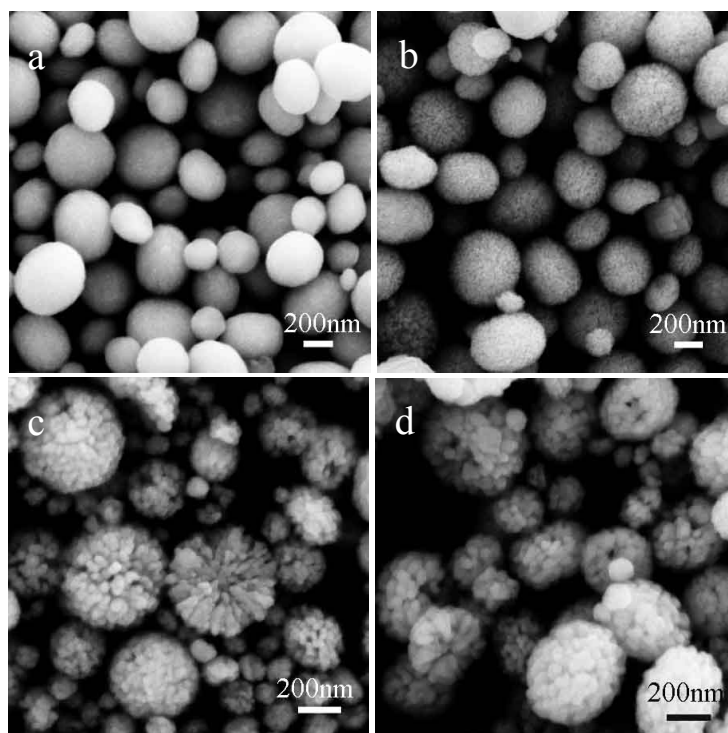


Fig. S2 SEM images of the samples prepared with different reaction temperature. (a) 150°C; (b) 170°C; (c) 190°C; (d) 200°C.

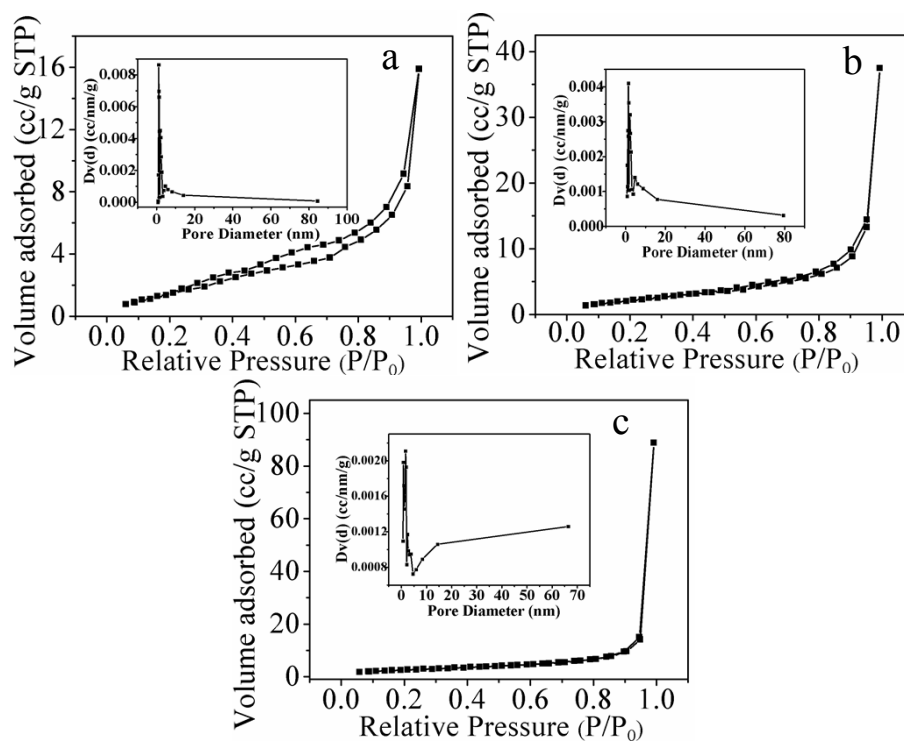


Fig. S3 Nitrogen adsorption-desorption isotherm and the corresponding pore size distribution curve for the hollow α - Fe_2O_3 spheres with different amounts of NaAc: (a) 0.06 g; (b) 0.12 g; (c) 0.26 g.