

Supplementary Information

Controlled synthesis of core/shell magnetic iron oxide/carbon system via a self-template method

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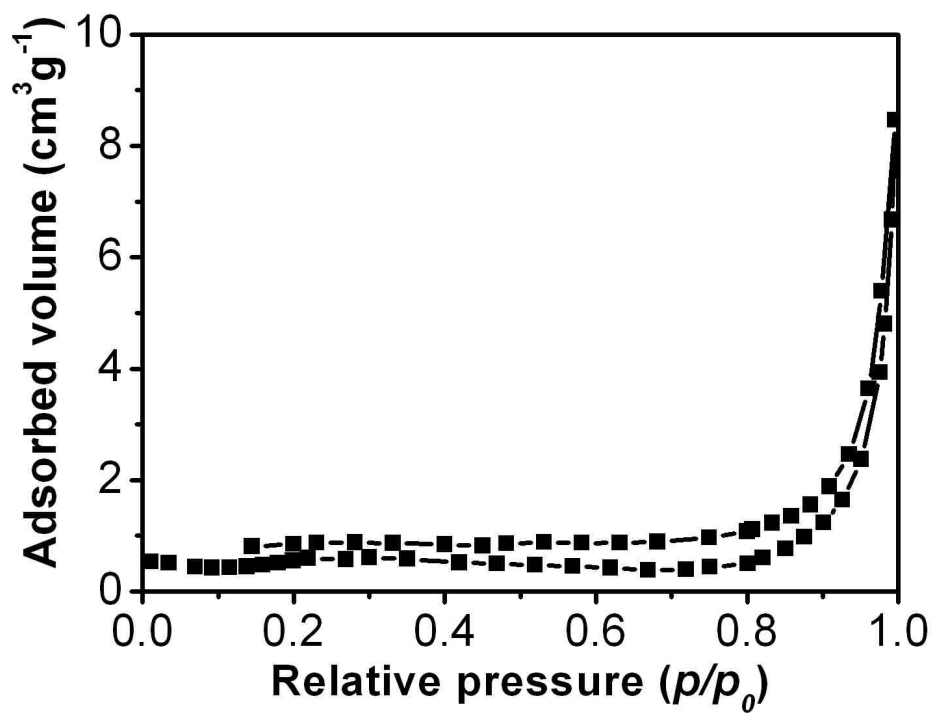


Fig. S1 Nitrogen adsorption isotherm of the materials prepared under the same condition as MI@CP except it was calcined in air, then removal of the silica by using 5 % HF.

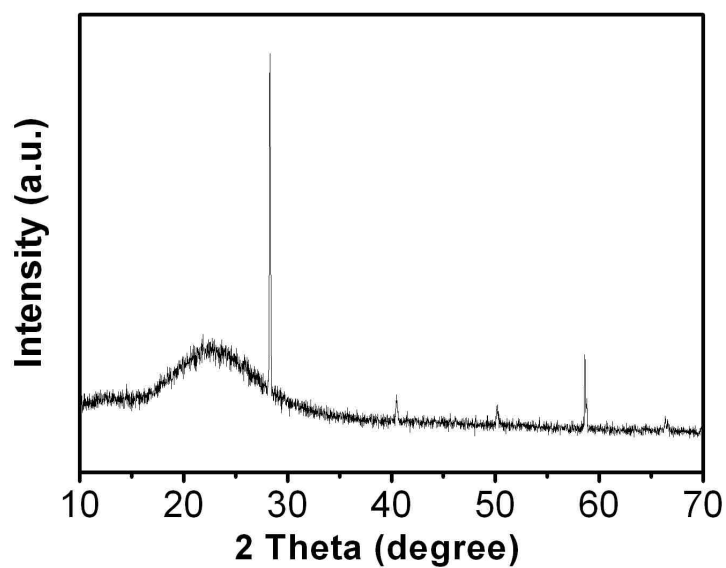


Fig. S2 Wide angle XRD pattern of the sample prepared at 45 °C calcined in Ar before removal of silica, the molar ratio of $\text{Fe}(\text{CO})_5$ to TEOS is 0.74.

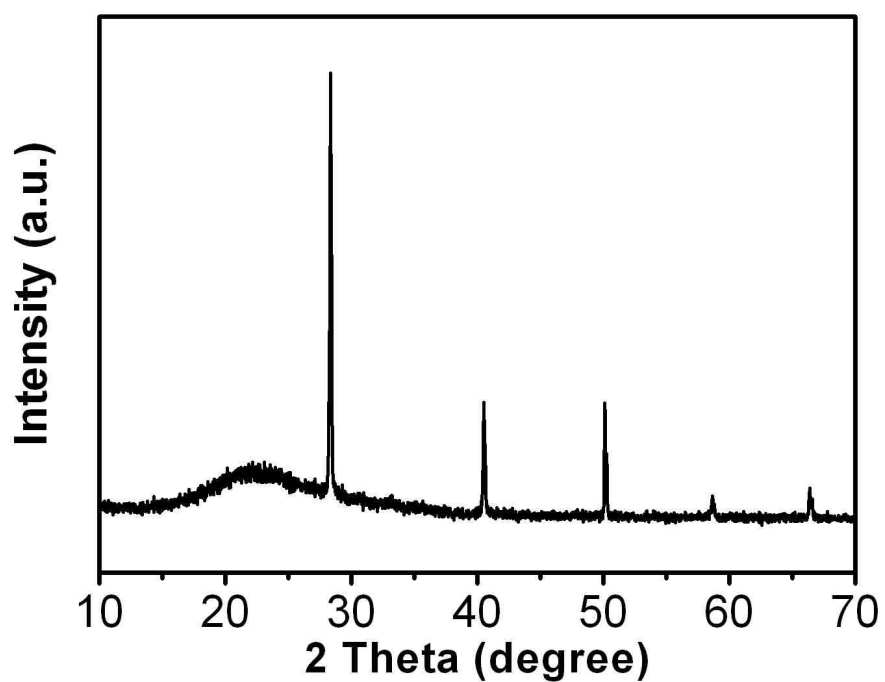


Fig. S3 Wide angle XRD pattern of the sample prepared at 18 °C calcined in Ar before removal of silica, the molar ratio of $\text{Fe}(\text{CO})_5$ to TEOS is 1.24.