

Supplementary Material

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RESEARCH ARTICLE

Fabrication of MIL-100(Fe)@SiO₂@Fe₃O₄ core-shell microspheres as a magnetically recyclable solid acidic catalyst for the acetalization of benzaldehyde and glycol

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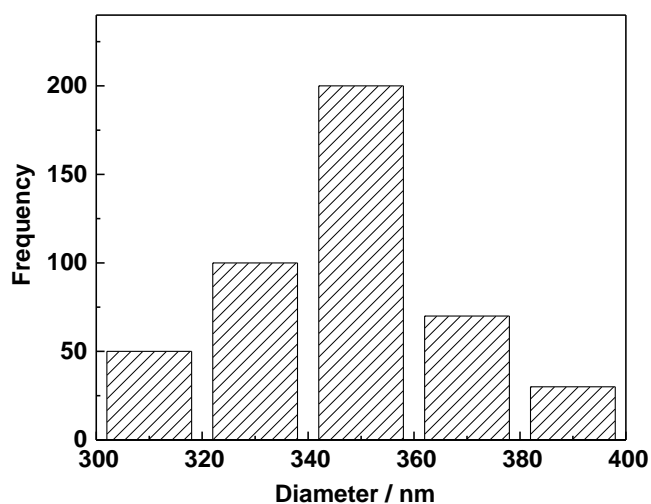


Figure S1 The corresponding size distribution histogram of the prepared Fe₃O₄.

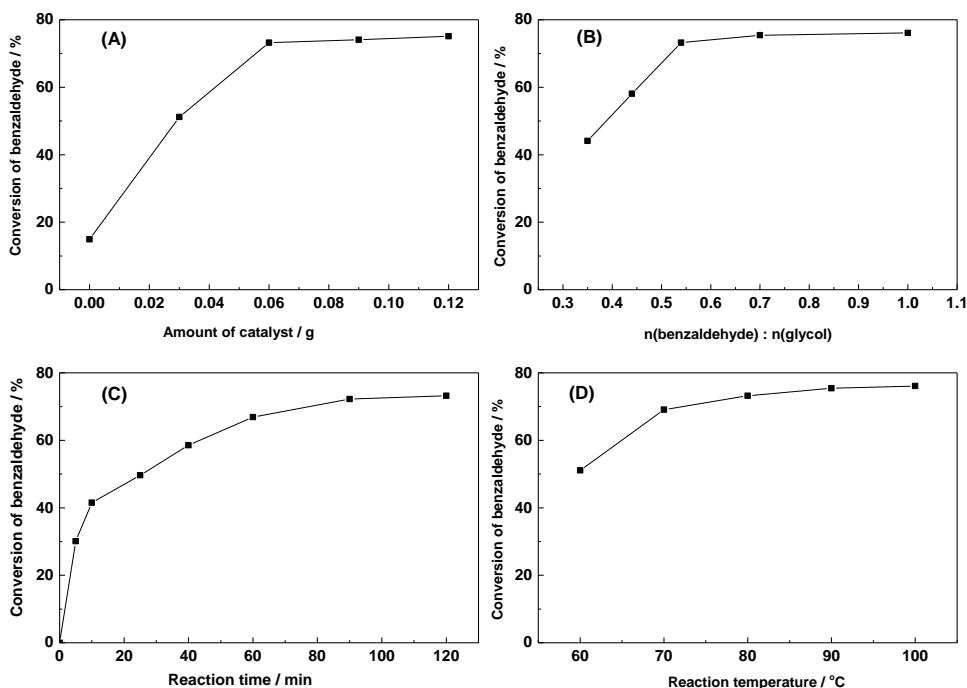


Figure S2 Influences of reaction conditions on the acetalization of benzaldehyde with glycol over MIL-100(Fe) $@$ SiO₂ $@$ Fe₃O₄. Influence of (A) catalyst amount, (B) molar ratio of benzaldehyde to glycol, (C) reaction time, (D) reaction temperature. Reaction conditions: 0.06 g of catalyst, 35 mmol of benzaldehyde, 64 mmol of glycol and 10 mL of cyclohexane used as the water removal agent at 80 °C for 120 min. For each figure one specific parameter is changed.