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Supporting Information

Easy synthesis and characterization of single-crystalline hexagonal prism-shaped α -Fe₂O₃ (Hematite) in aqueous media

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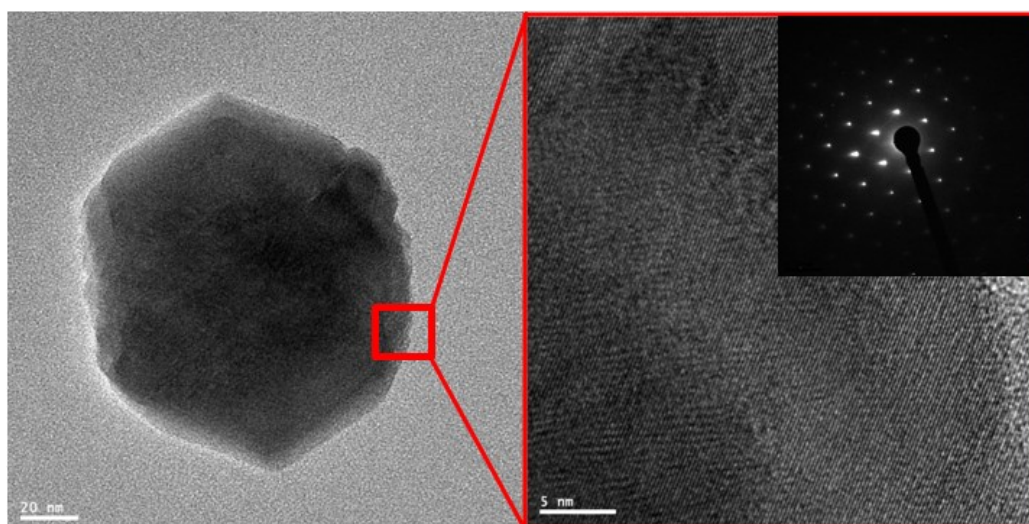


Fig. S1. HR-TEM images and electron diffraction pattern (inset) of Hexagonal Fe₂O₃.

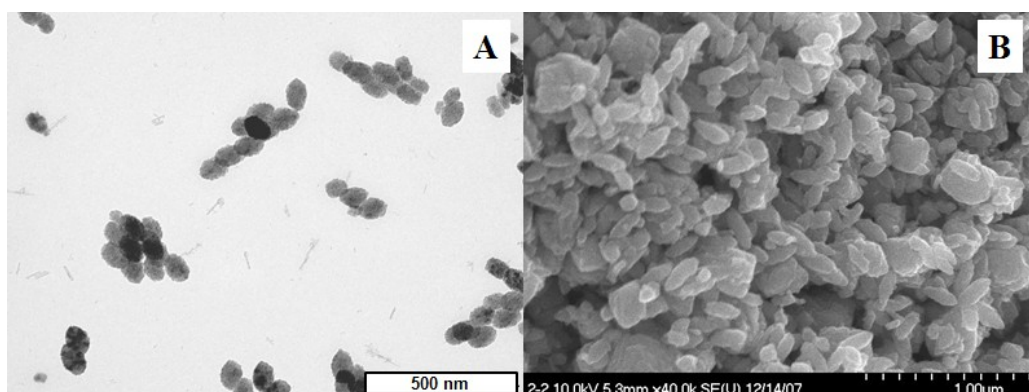


Fig. S2. (A) TEM and (B) SEM images of Fe₂O₃ synthesized at 90 °C for 12 h without using urea.

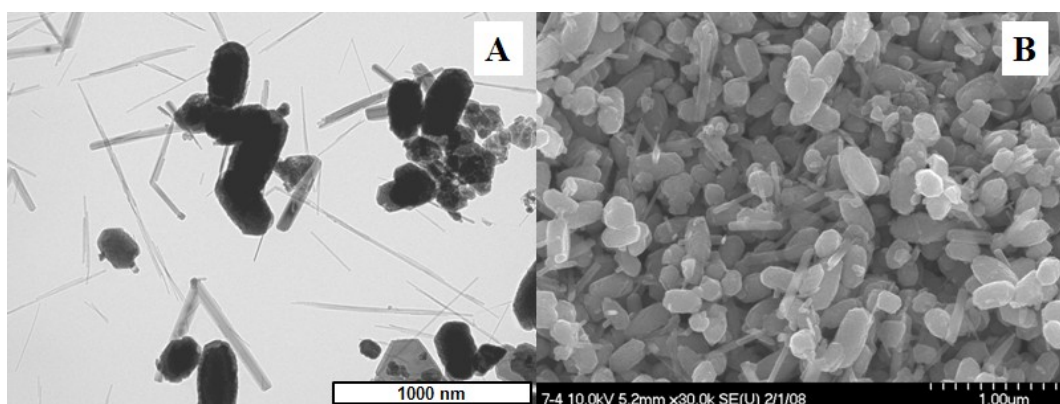


Fig. S3. (A) TEM and (B) SEM images of Fe_2O_3 synthesized by addition of urea at room temperature.

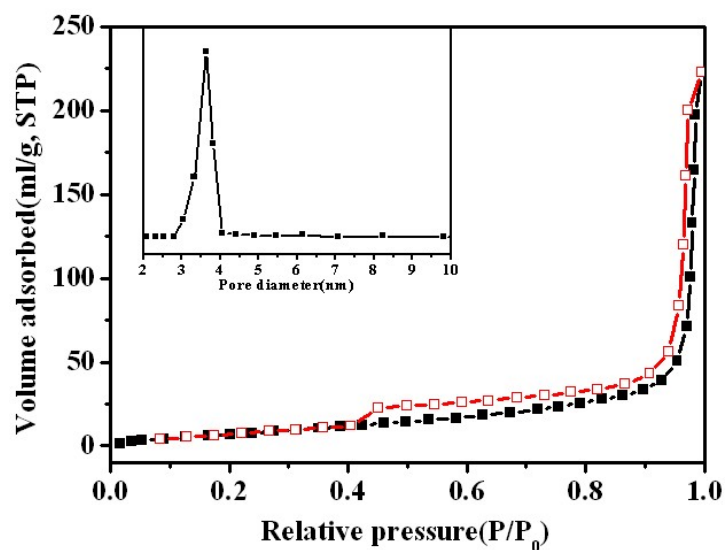


Fig. S4. N_2 adsorption/desorption isotherms for the hexagonal prism-shaped $\alpha\text{-Fe}_2\text{O}_3$ and pore size distribution (the inset). Solid symbols: adsorption, open symbols: desorption.

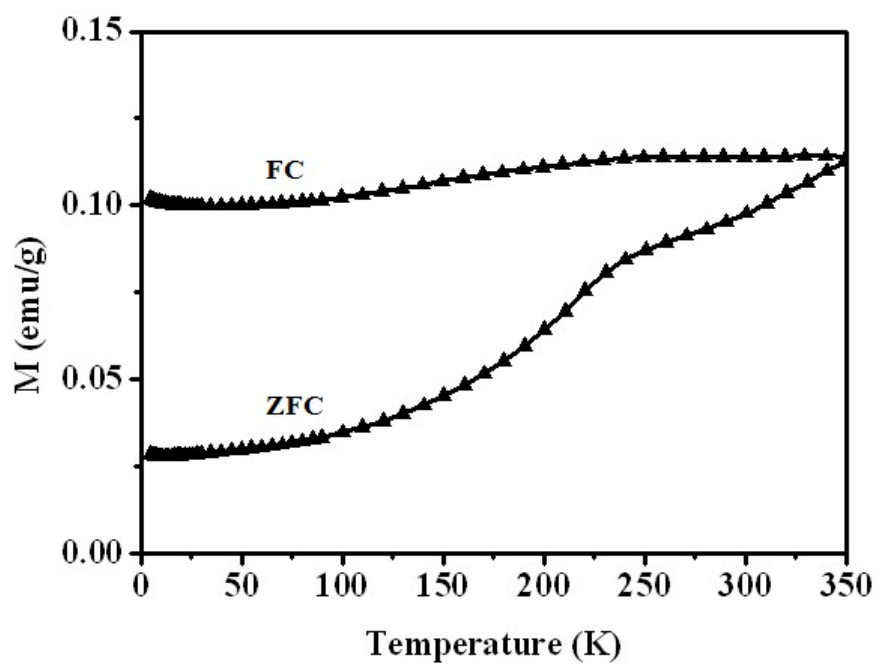


Fig. S5. The temperature dependence of ZFC/FC curve of the Hematite $\alpha\text{-Fe}_2\text{O}_3$.