

## Synthesis and Magnetism of $\epsilon$ - $\text{Fe}_3\text{N}$ Submicrorods for Magnetic Resonance Imaging

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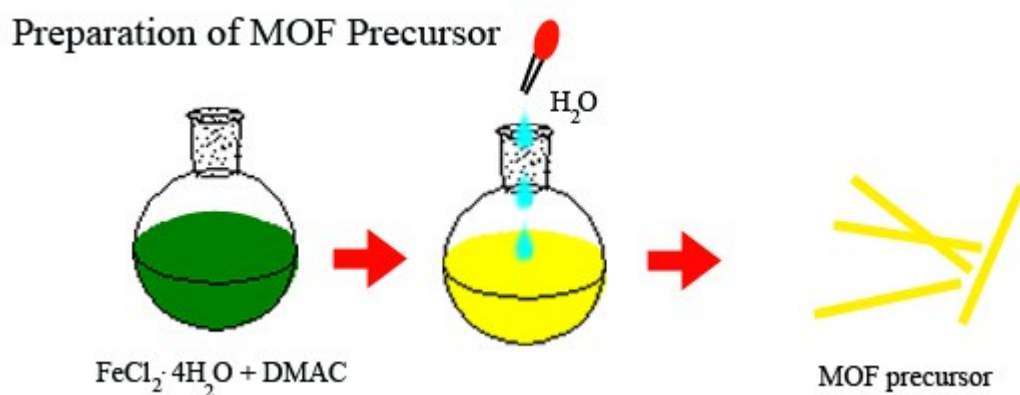


Figure S1 preparation of MOF precursor

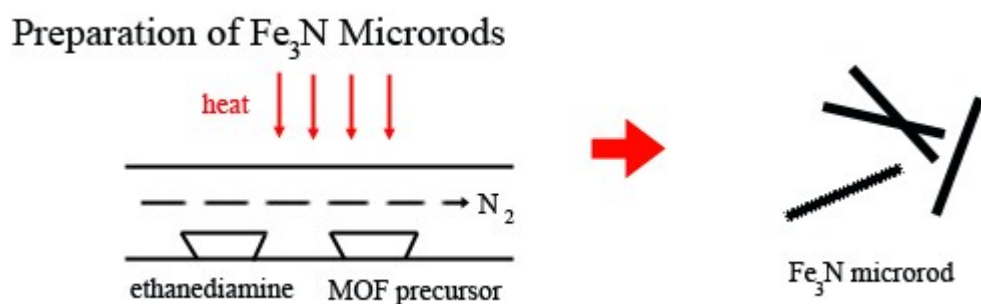


Figure S2 preparation of  $\text{Fe}_3\text{N}$  submicrorods

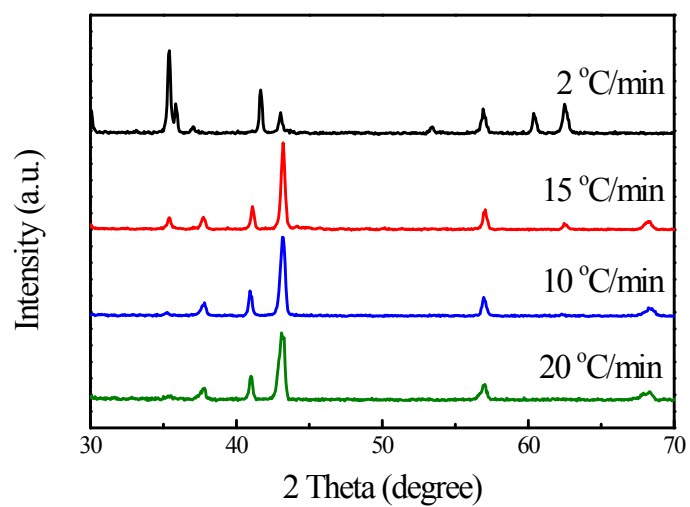


Figure S3 XRD patterns of samples calcinated at different heating rates

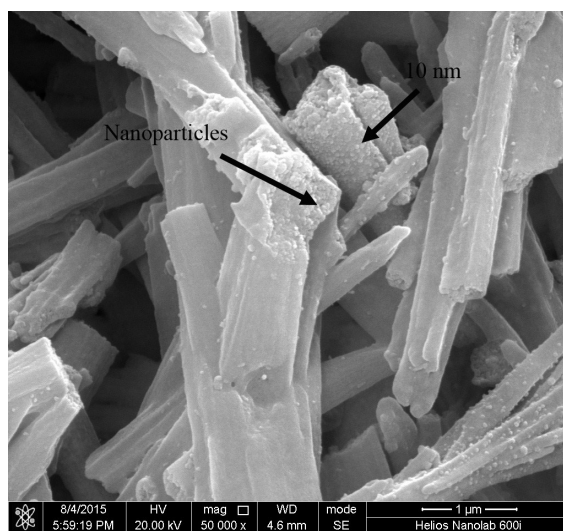


Figure S4 the detailed magnification of Fe<sub>3</sub>N submicrorods

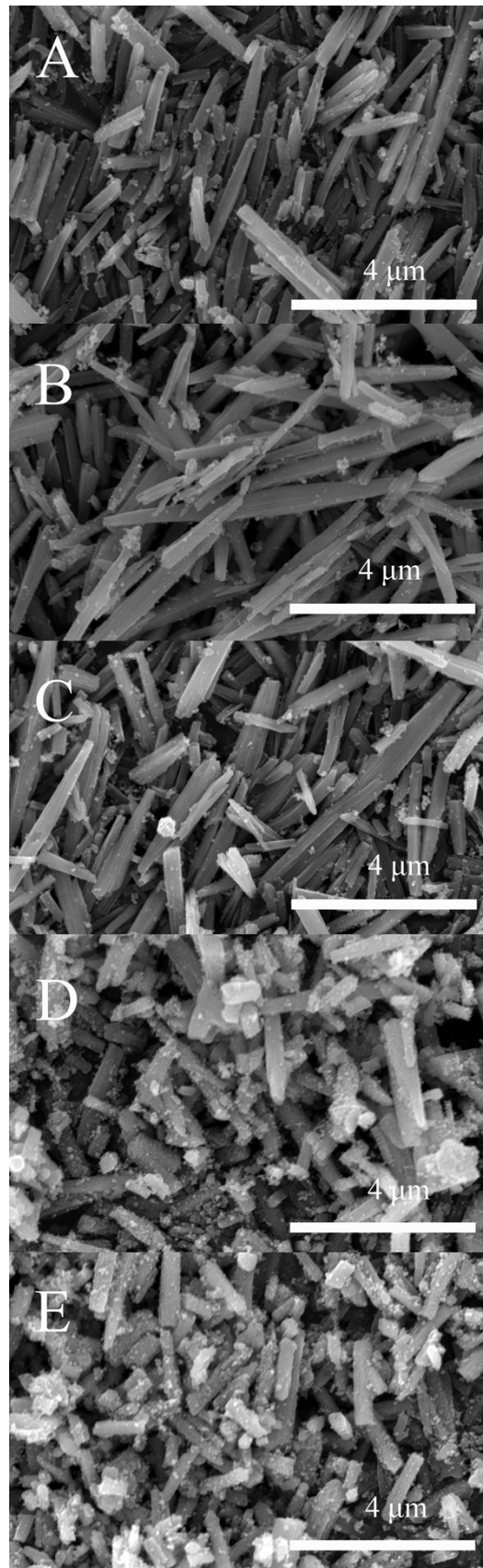


Figure S5 SEM images of samples calcinated at different temperatures (A-400 °C, B-500 °C, C-540 °C, D-560 °C, E-700 °C)

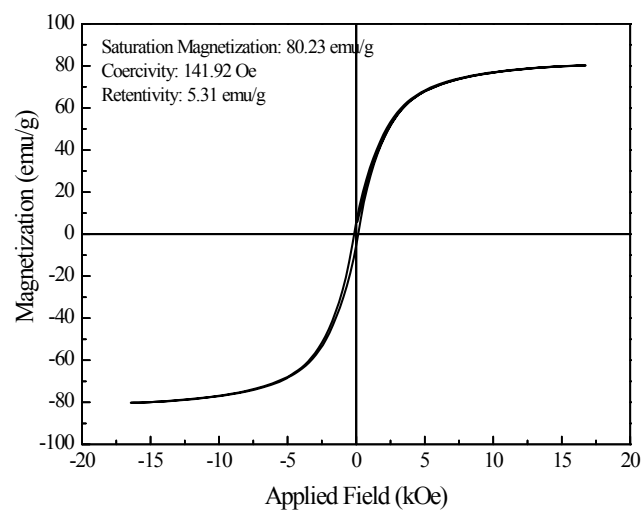


Figure S6 Fe<sub>3</sub>N particles prepared from the sol-gel method