

Electronic Supplementary Information

Chemical “Top-Down” Synthesis of Amphiphilic Superparamagnetic Fe₃O₄ Nanobelts from Exfoliated FeOCl Layers

Xiao Wei, Juan Su, Xin-Hao Li* and Jie-Sheng Chen

College of Chemistry and Chemical Technology, Shanghai Jiao Tong University, Shanghai 200240, People's Republic of China

*To whom correspondence should be addressed

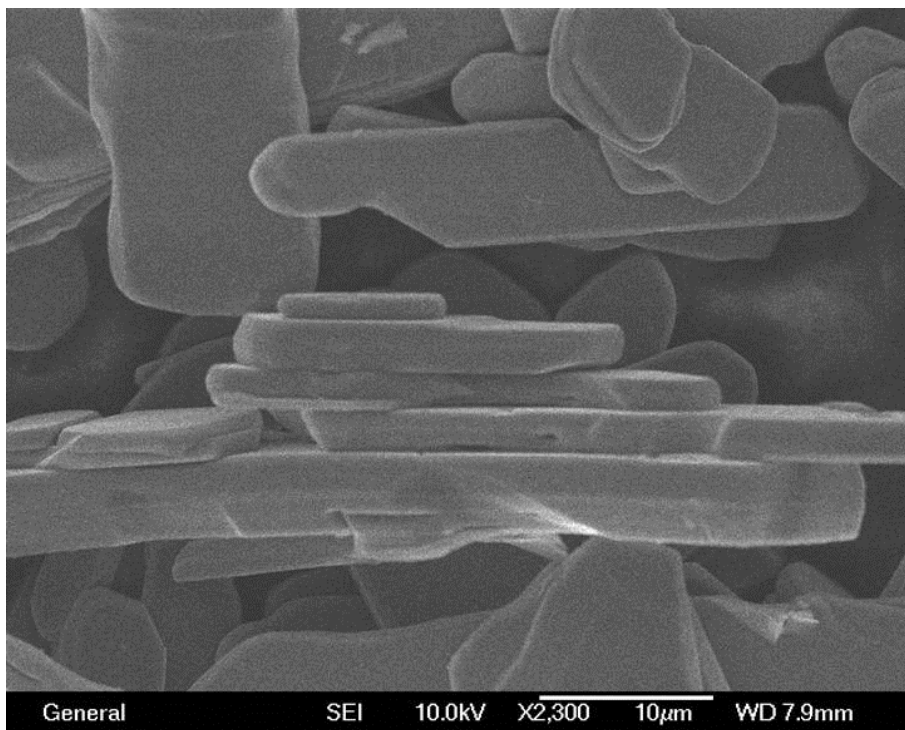


Figure S1. SEM image of FeOCl precursor.

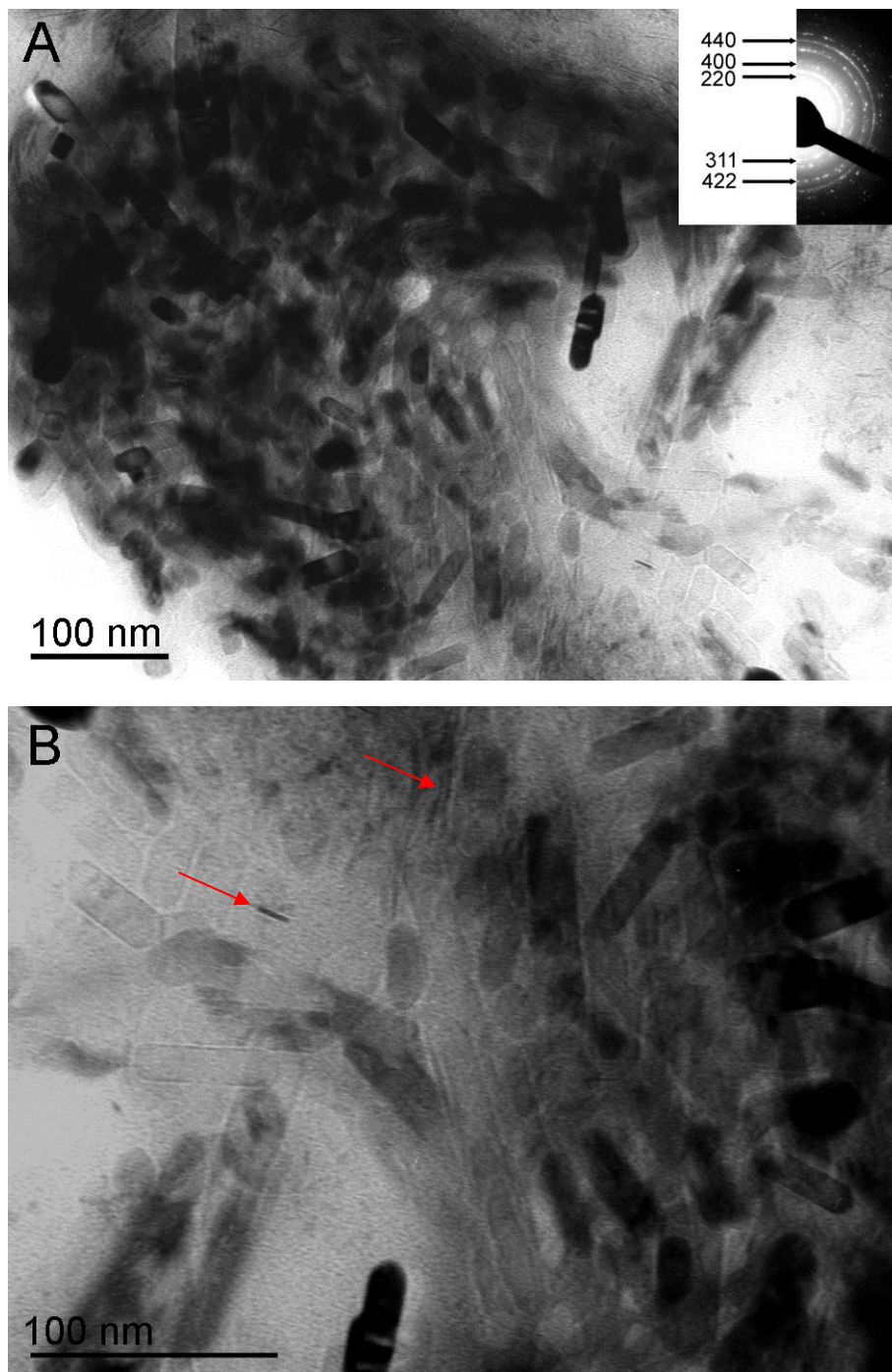


Figure S2. Amplified TEM images of Fe₃O₄ nanobelts. Arrows: side view of nanobelts.

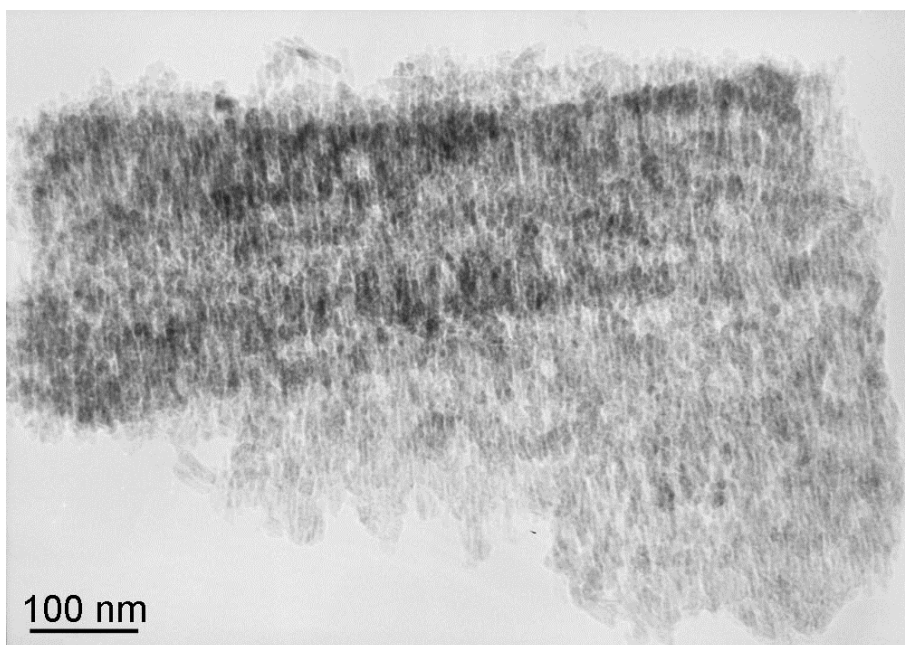


Figure S3. TEM image of aggregates of Fe₃O₄ nanoparticles obtained by using FeOCl solid as precursor without an exfoliating process. Although layered structures can be seen in the aggregates, these layers could not be released even under intense sonication, suggesting the importance of the exfoliating process for the formation of Fe₃O₄ nanobelts.

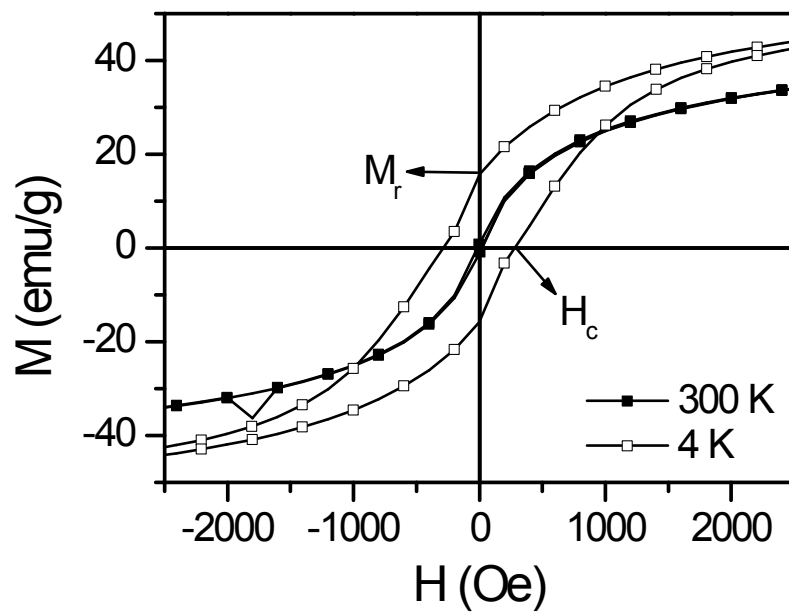


Figure S4. Hysteresis loops of Fe_3O_4 nanobelts measured at 4 and 300 K.