

Supporting Information

External Fields-Assisted Solution Synthesis and Selectively Catalytic Properties of Amorphous Iron Nanoplatelets

Jianguo Guan,^{* a £} Gongqin Yan,^{a, b £} Wei Wang^a and Jun Liu^c

a. State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan 430070, P. R. China; b. Mechanical Engineering Department, Guangxi University of Technology, Liuzhou, 545006, Guangxi, P. R. China; c. Pacific Northwest National Laboratory, Richland, WA 99352, USA

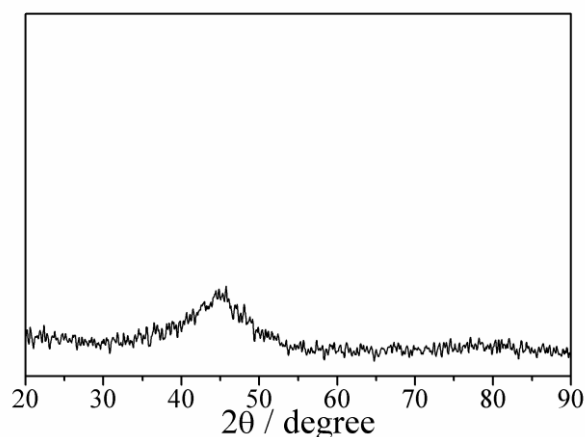


Figure S1 The XRD pattern of the iron nanostructures obtained at $[\text{FeSO}_4] = 0.5 \text{ M}$ but without the inducement of magnetic field.

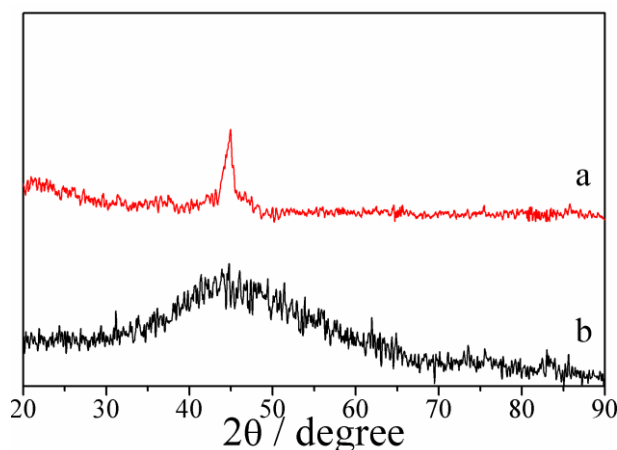


Figure S2 The XRD patterns of the iron nanostructures obtained at $[\text{FeSO}_4] = 0.5 \text{ M}$ and the different reaction temperatures of 2°C (a) and 60°C (b).

* To whom correspondence should be addressed. Email: guanjg@whut.edu.cn, Tel: 86-27-87218832; Fax: 86-27-87879468.

£ These 2 authors contributed equally to this work.

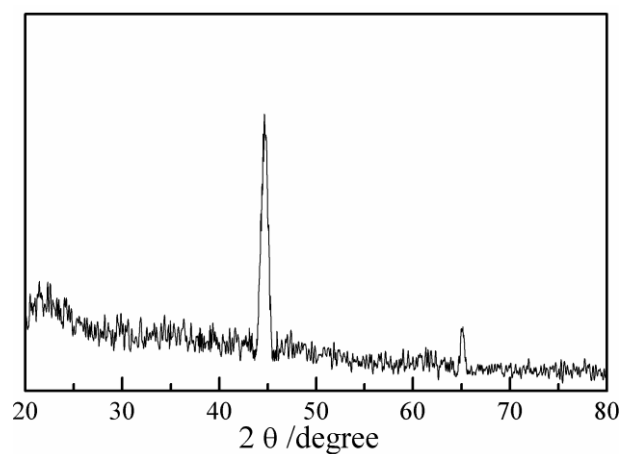


Figure S3 The XRD pattern of the iron nanoplatelets after heated at 300 °C for 2 h in the atmosphere of argon.

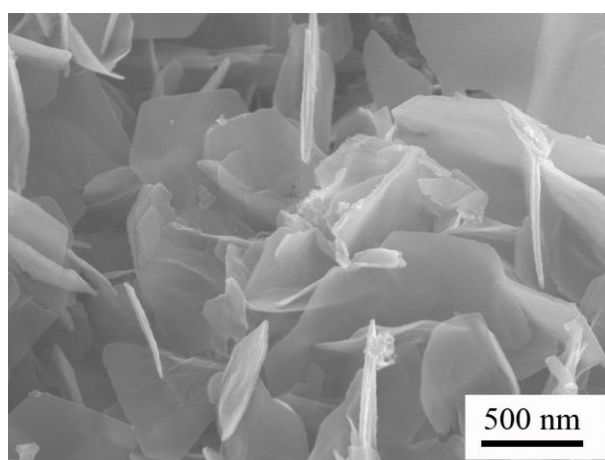


Figure S4 The SEM image of the iron nanoplatelets after heated at 300 °C for 2 h in the atmosphere of argon.