Supporting information for:

Magnetite modified graphene nanosheets with improved rate performance and cyclic stability for Li ion battery anodes

Jiantao Zai; Chao Yu; Qiong Zou; Liqi Tao; Kaixue Wang; Qianyan Han; Bo Li; Yinlin Xiao, Xuefeng Qian and Rongrong Qi*

School of Chemistry and Chemical Engineering
State Key Laboratory of Metal Matrix Composites
Shanghai Jiao Tong University, Shanghai, 200240 (P. R. China)
E-mail: xfqian@sjtu.edu.cn

Fig. S1 XRD patterns of sample prepared with 0.05g FeCl₃·6H₂O (top) and JCPDS cards (No.49-1447 and 89-4185, bottom).
**Fig. S2** XRD patterns of sample prepared with 0.1g FeCl₃·6H₂O (top) and JCPDS cards (No.49-1447 and 89-4185, bottom).

**Fig. S3** XRD patterns of sample prepared with 0.4g FeCl₃·6H₂O (top) and JCPDS cards (No.74-748, bottom).
Fig. S4 XRD patterns of sample prepared with 0.9g FeCl₃·6H₂O (top) and JCPDS cards (No.74-1877, bottom).

Fig. S5 Fe 2p core-level XPS spectrum of MGNSs.
Figure S6 Cyclic behaviors of lithium ion batteries assembled with samples prepared with different dosage of FeCl₃·6H₂O.