Supporting Information

Hierarchical Porous Fe/N doped Carbon Nanofibers as Host Materials for High Sulfur Loading Li-S Batteries

Mao Jiang,^{*a,b*} Ruxing Wang, ^{*a*} Kangli Wang, ^{*, *a*} Shu Gao, ^{*a,c*} Jing Han, ^{*b*} Jie Yan, ^{*b*} Shijie Cheng^{*a*} and Kai Jiang^{*,*a*}

^aState Key Laboratory of Advanced Electromagnetic Engineering and Technology, School of Electrical and Electronic Engineering, Huazhong University of Science and Technology, Wuhan, Hubei 430074, China.

^bState Key Laboratory of Materials Processing and Die & Mould Technology, School of Materials Science and Engineering, Huazhong University of Science and Technology, Wuhan, Hubei 430074, China.

^cSchool of Physics and Information Engineering & Key Laboratory of Optoelectronic Chemical Materials and Devices of Ministry of Education, Jianghan University, Wuhan, Hubei 430056, China.

E-mail: kjiang@hust.edu.cn; klwang@hust.edu.cn



Fig. S1. BET surface area comparation of Fe/N-HPCNF and CNF



Fig. S2. TEM images of Fe₃C in the Fe/N-HPCNF



Fig. S3. Charge/Discharge curves of (a) S@CNF and (b) S@Fe/N-

HPCNF at 0.5 C.