Forming SnS@C/MoS₂ Nanotubes with High Specific Surface Area via Self Sacrificing Template Method as Superior Performance Anode for Lithium-Ion Batteries

Songwei Ye[1], Zunxian Yang[*,1,2], Yuliang Ye [1], Zhiming Cheng[1],Hongyi Hong[1],Zhiwei Zeng[1], Zongyi Meng[1], Qianting Lan[1], Hui Zhang[1] , Ye Chen[1], Jiaxiang Wang[1], Yuting Bai[1], Xudong Jiang[1], Benfang Liu[1], Jiajie Hong[1] , Tailiang Guo[1,2] ,Shen Xu[1,2], Zhenzhen Weng[3], Yongyi Chen[3]

[1]National & Local United Engineering Research Center of Flat Panel Display Technology, Fuzhou University, Fuzhou 350108, P. R. China.

[2]Mindu Innovation Laboratory, Fujian Science & Technology Innovation Laboratory For Optoelectronic Information of China, Fuzhou,350108, P.R. China

[3]Department of Physics, School of Physics and Information Engineering, Fuzhou University
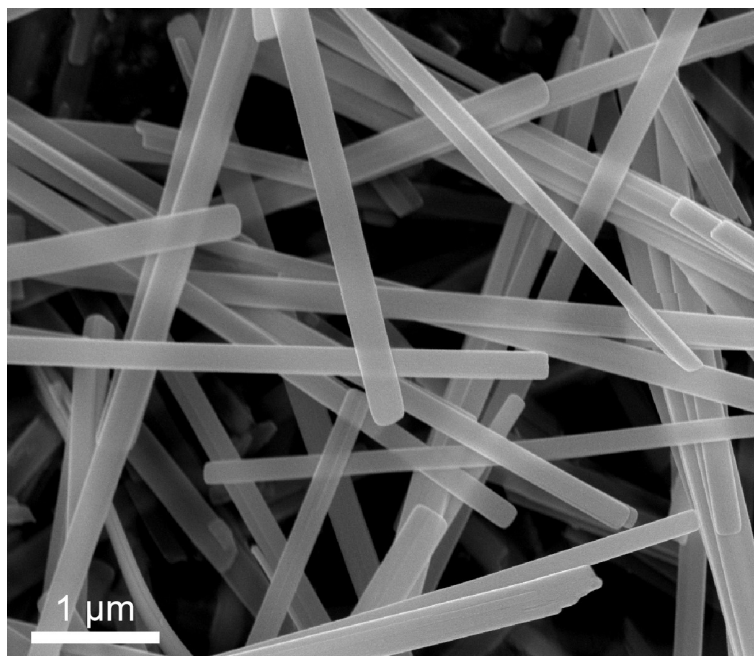
Supporting Information

* Corresponding author should be addressed. Tel.: +86 591 8789 3299; Fax: +86 591 8789 2643
E-mail: yangzunxian@hotmail.com   (Z. Yang)

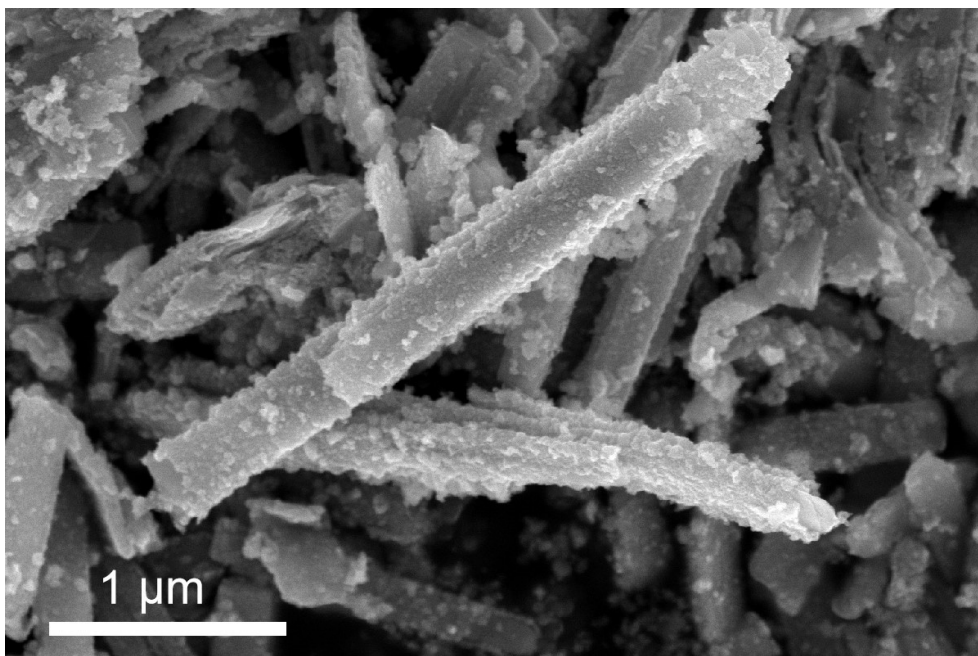**Figure S1** SEM images of MoO$_3$ nanobelts

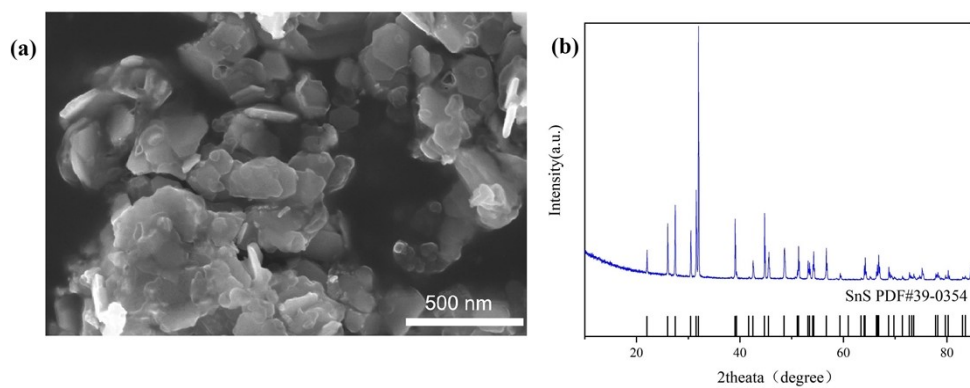**Figure S2** SEM images of Sn-MOF/MoO$_3$ nanorod without PVP

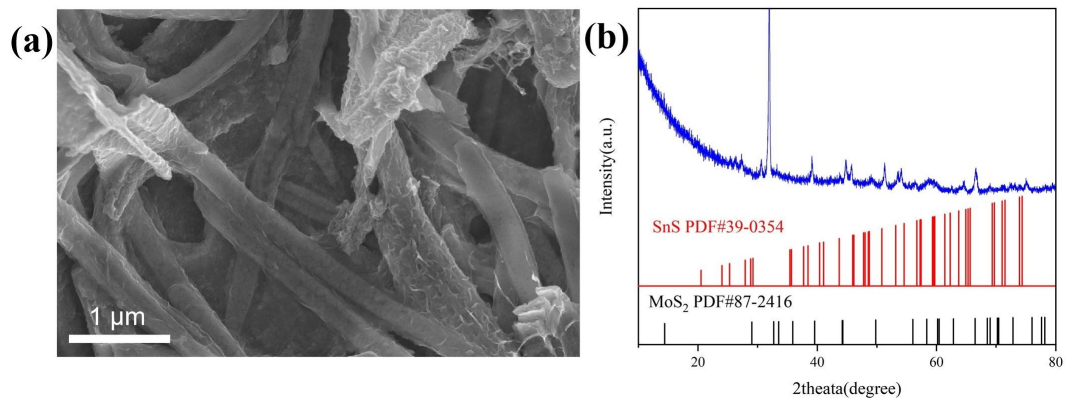**Figure S3 (a)** SEM image and **(b)** XRD patten of C/SnS nanosheets.

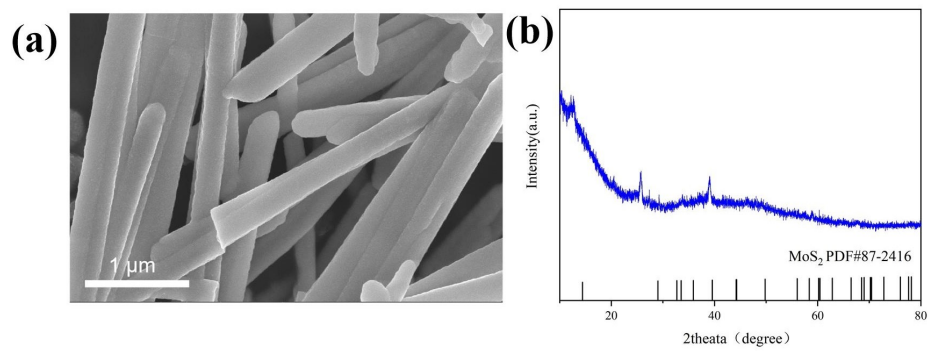**Figure S4 (a)** SEM image and **(b)** XRD patten of SnS/MoS$_2$ nanotubes.

Figure S5 (a) SEM image and **(b)** XRD patten of MoS$_2$ nanorods.