Supplementary information for

Interpenetrating network of V₂O₅ nanosheets/carbon nanotubes nanocomposite for fast lithium storage

Zhaolong Li, Quanyao Zhu, Shengnan Huang, Shanshan Jiang, Shan Lu, Wen Chen and Galina S. Zakharova

a State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, School of Materials Science and Engineering, Wuhan University of Technology, Wuhan 430070, P.R. China
b Institute of Solid State Chemistry, Ural Branch of Russian Academy of Science, Ekaterinburg 620990, Russian Federation

*Email: chenw@whut.edu.cn

This author contributed equally to this study and share first authorship. All authors discussed the results and commented on the manuscript. The authors declare no competing financial interest.
**Fig. S1** XRD pattern of the V$_2$O$_5$ nanosheets/CNTs nanocomposite (with 20 wt.% CNTs) before heating treatment.

**Fig. S2** XRD pattern of the V$_2$O$_5$ nanosheets/CNTs nanocomposite with different ratio of CNTs.
Fig. S3 FESEM images of the V$_2$O$_5$ nanosheets/CNTs nanocomposites with different ratio of CNTs.

Fig. S4 TEM images of the V$_2$O$_5$ nanosheets/CNTs nanocomposites with the ratio of 0 and 20 wt.% CNTs, respectively.
Fig. S5 Comparison the specific discharge capacity vs. cycle number of the V$_2$O$_5$ nanosheets/CNTs nanocomposites with different CNTs ratio at the current density of 0.1, 0.5, and 1 Ag$^{-1}$. 