Electronic Supplementary Material (ESI) for Journal of Materials Chemistry A. This journal is © The Royal Society of Chemistry 2015

Supporting Information

Titanium Doped Niobium Oxide for Stable Pseduocapacitive Lithium Ion Storage and Its Application for 3 V Non-Aqueous Supercapacitor

Xu Wang, Pooi See Lee*

Dr. X.Wang, Prof. P.S. Lee. School of Materials Science and Engineering, Nanyang Technological University, 639798, Singapore. E-mail:pslee@ntu.edu.sg

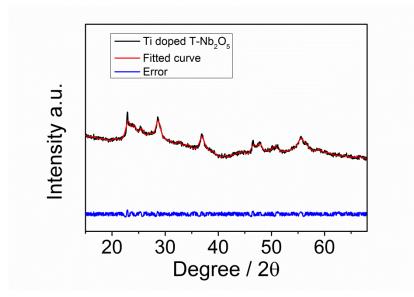


Figure S1. XRD fitting of Ti doped T-Nb₂O₅ diffraction pattern from 15° to 68° using Rietveld refinement analysis in TOPAS software version 4.1.

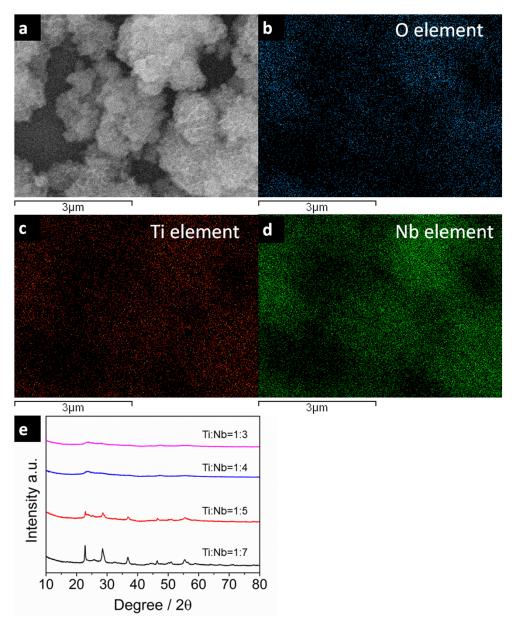


Figure S2. (a) SEM image of the mapping area of Ti doped T-Nb2O5 sample; (b) O element mapping; (c) O element mapping; (d) O element mapping.EDX spectrum of sample Ti doped T-Nb₂O₅; (d) XRD patterns of samples with different starting Ti:Nb molar ratio.

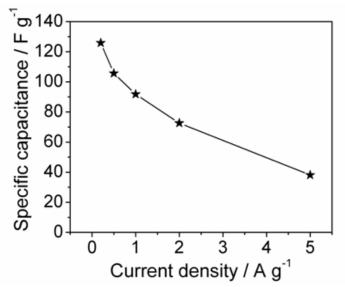


Figure S3. relationship between different current densities and specific capacitances of activated carbon in 1M LiClO₄ in PC, tested from $-0.2\sim0.8$ V vs Ag/AgCl.

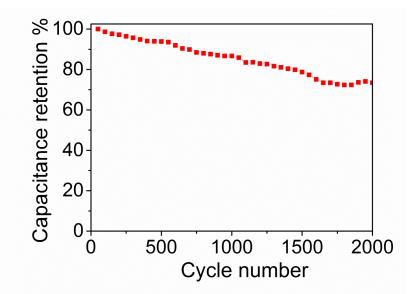


Figure S4. Capacitance retention of PANI-SWCNT material cycling test in 1M LiClO₄ in PC, tested from $-0.2\sim0.8$ V vs Ag/AgCl at a scan rate of 10 mV s⁻¹.