## **Supplementary Information for**

## 1.8 V symmetric supercapacitors developed by two nanocrystalline Ru film

## electrodes

Hui Xia<sup>1,2\*</sup>, Bo Li<sup>1,2</sup>, Li Lu<sup>3</sup>

<sup>1</sup>School of Materials Science and Engineering, Nanjing University of Science and

Technology, Nanjing 210094, P. R. China

<sup>2</sup>Herbert Gleiter Institute of Nanoscience, Nanjing University of Science and

Technology, Xiaolingwei 200, Nanjing 210094, China

<sup>3</sup>Department of Mechanical Engineering, National University of Singapore, 4

Engineering Drive 4, Singapore 117576

<sup>\*</sup> Corresponding author, e-mail: <u>xiahui@njust.edu.cn</u> Tel: (86) 25 84315606 , Fax: (86) 25 84315159



Fig. S1 XRD spectra of bare Ni foam (a) and Ru/Ni foam (b).



Fig. S2 TEM images of the Ru film sample with various magnifications.



Fig. S3 CV curves of the bare Ni foam electrode in various voltage windows: (a) -1 - 0 V, (b) 0 - 1 V and (c) -1 - 1 V vs. Ag/AgCl at a scan rate of 50 mV s<sup>-1</sup>.



Fig. S4 CV curve of the Ru//Ru symmetric supercapacitor between 0 and 2 V.