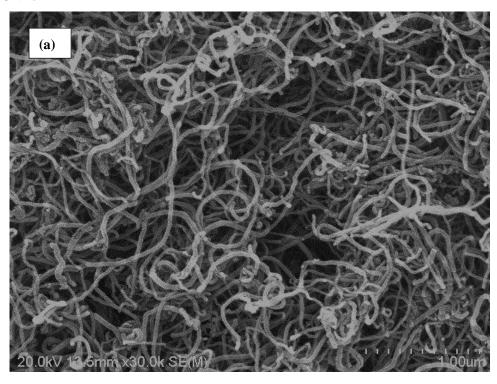
## **Electronic Supporting Information**

## Carbon nanotube coated with a nitrogen-doped carbon layer and its enhanced electrochemical capacitance

Baigang An,\*a,b Shifei Xu, Lixiang Li, b, Jing Tao a, Fen Huang a and Xin Geng a,b

SEM images (Fig. S1) and XRD patterns (Fig.S2) of CNTs, CNTs@PPy and NC-CNTs



<sup>&</sup>lt;sup>a</sup> School of Chemical Engineering, University of Science and Technology Liaoning, 185 Qianshangzhong Road, Anshan 114051, China.

<sup>&</sup>lt;sup>b</sup> Institute of Materials Electrochemistry Research, University of Science and Technology Liaoning, 185 Qianshangzhong Road, Anshan 114051, China

<sup>\*</sup>E-mail: bgan@ustl.edu.cn

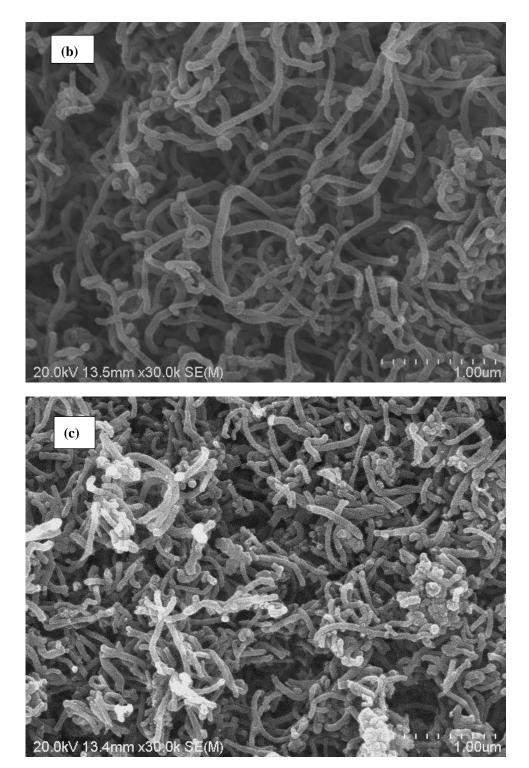


Fig.S1 SEM images of (a) CNTs, (b) CNTs@PPy and (c) NC-CNTs

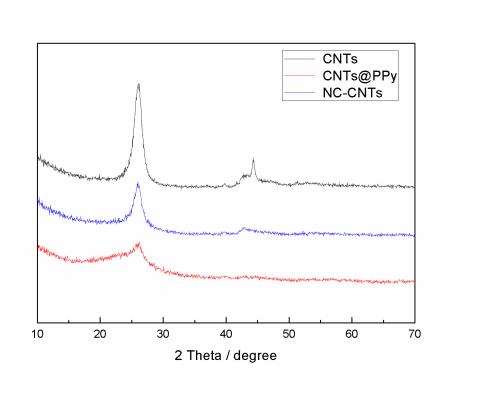


Fig.S2 XRD pattern of CNTs , CNTs@PPy and NC-CNTs