

Supporting information for

Tailorable Pseudocapacitors for Energy Storage Clothes

Liuxue Shen^b, Peng Sun^a, Chuanxi Zhao^a, Shaozao Tan^{b*}, Wenjie Mai^{a*}

^a *Siyuan Laboratory, Guangzhou Key Laboratory of Vacuum Coating Technologies and New Energy Materials, Department of Physics, Jinan University, Guangzhou, Guangdong 510632, China. E-mail: wenjiemai@gmail.com*

^b *Department of Chemistry, Jinan University, Guangzhou, Guangdong 510632, China. E-mail: tanshaozao@163.com*

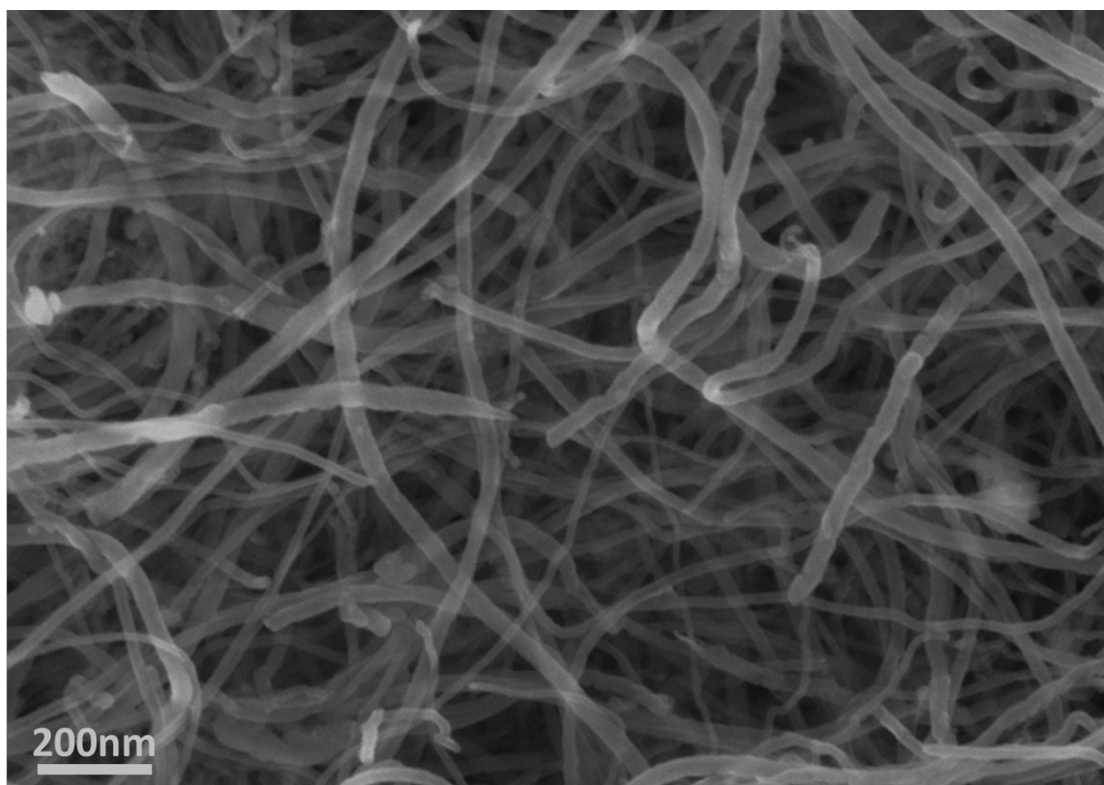


Figure S1 SEM image of CNTs

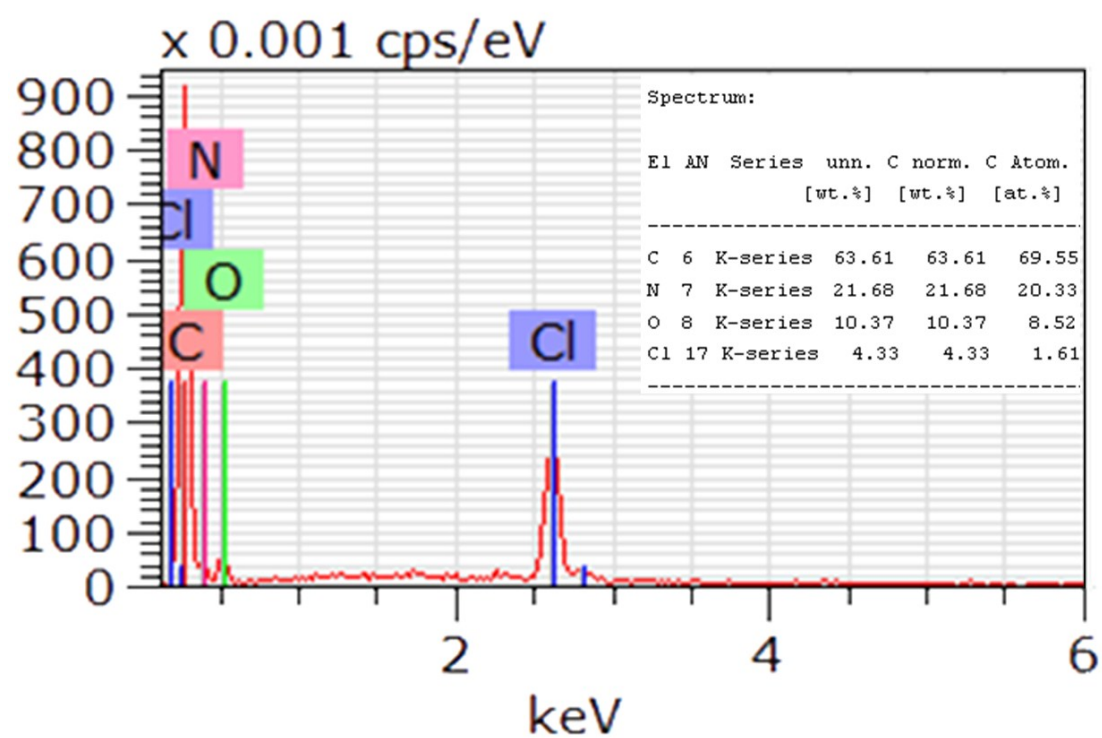


Figure S2 EDS spectrum of PPy

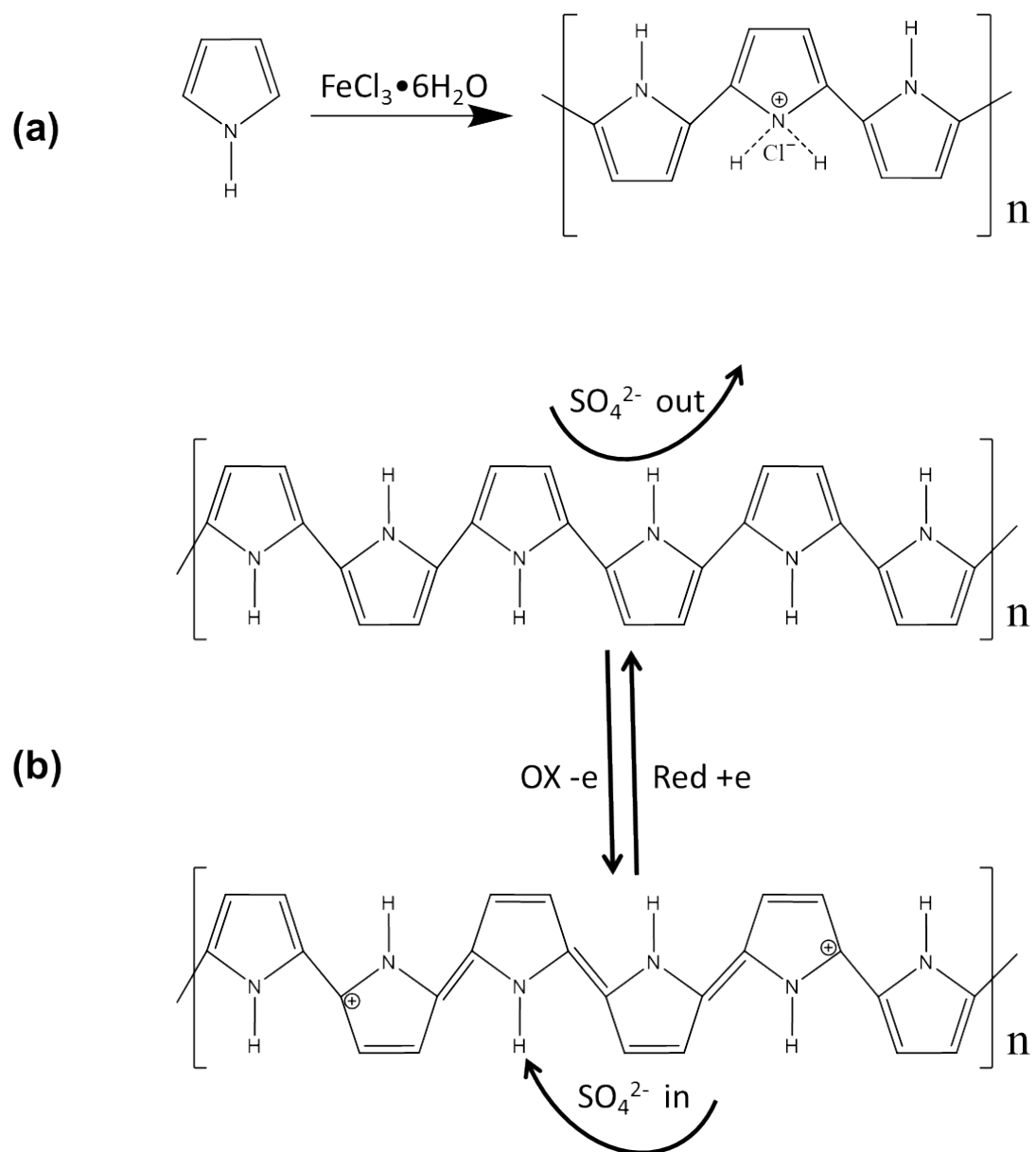


Figure S3 Schematic drawing of (a) chemical polymerization of PPy, and (b) anion and electron transfer in PPy during electrochemical red-ox switching

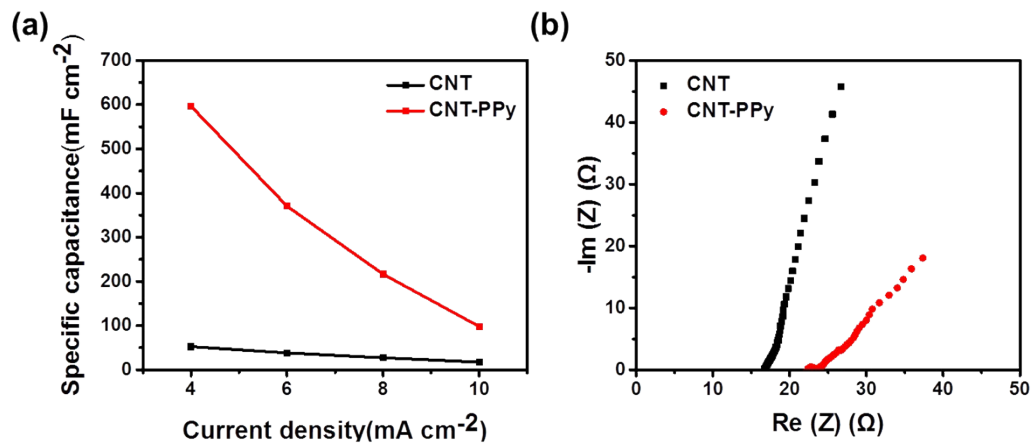


Figure S4 (a) Areal capacitors of the pure CNTs electrode and CNT-PPy hybrid electrode with different current densities. (b) Nyquist plots of the EIS for the pure CNTs electrode and flexible CNT-PPy hybrid electrode.

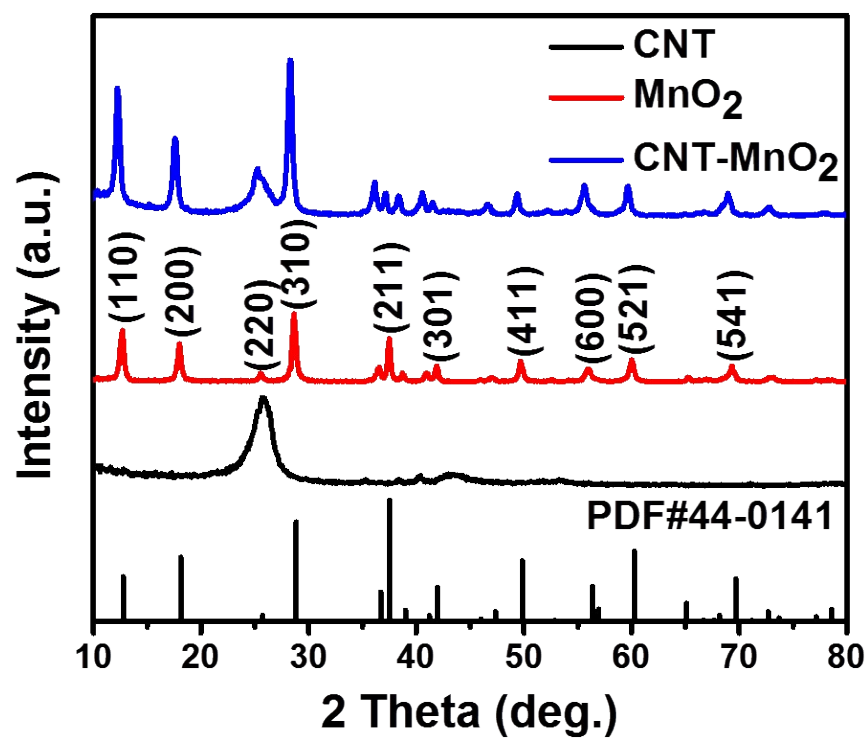


Figure S5 XRD patterns of the CNT, MnO₂ NWs, and CNT/MnO₂ NW hybrid film.

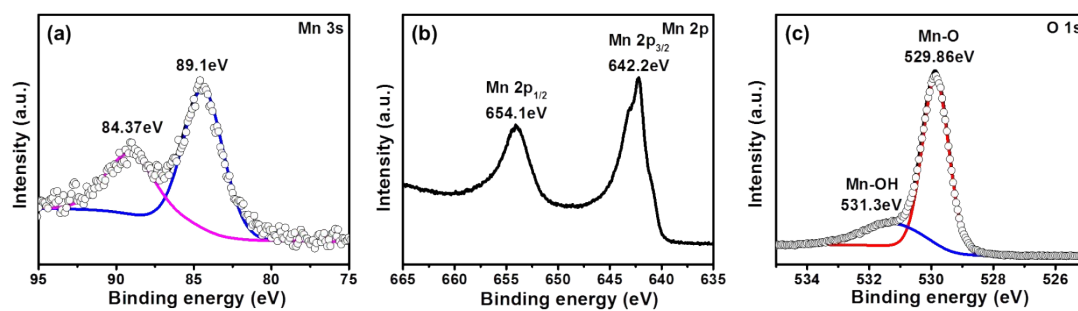


Figure S6 XPS spectra of (a) Mn_{3s}, (b) Mn_{2p} and (c) O_{1s} for MnO₂ NWs

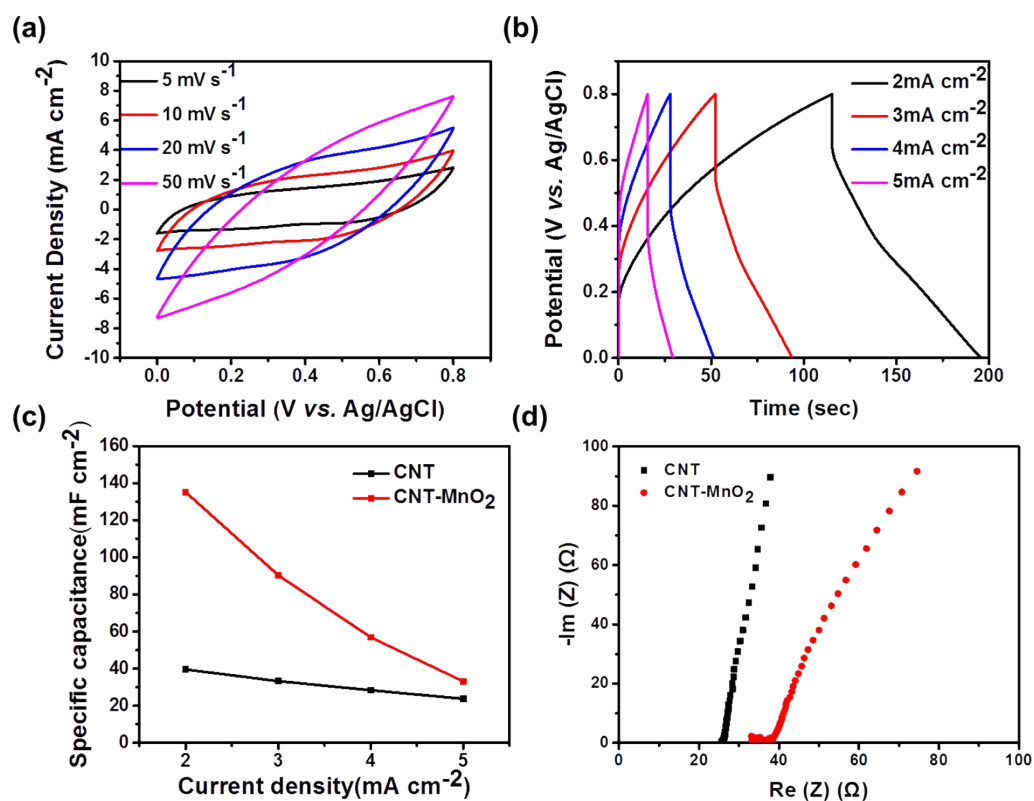


Figure S7 Electrochemical performance of the flexible CNT-MnO₂ hybrid electrode: (a) CV curves collected at different scan rates and (b) Galvanostatic charge-discharge curves at various current densities. (c) Areal capacitors of the pure CNTs electrode and CNT-MnO₂ hybrid electrode with different current densities. (d) Nyquist plots of the EIS for the pure CNTs electrode and flexible CNT-MnO₂ hybrid electrode.

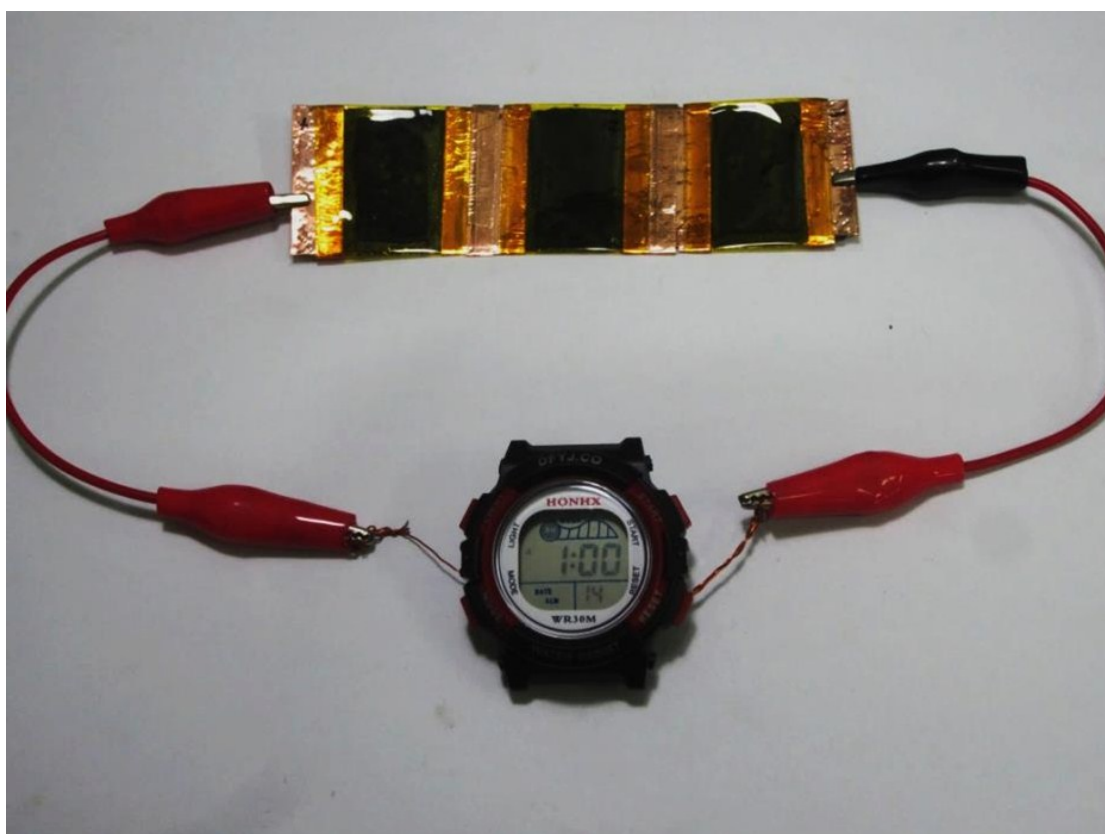


Figure S8 Photographic image shows the three tandem TSCs drive the digital watch.

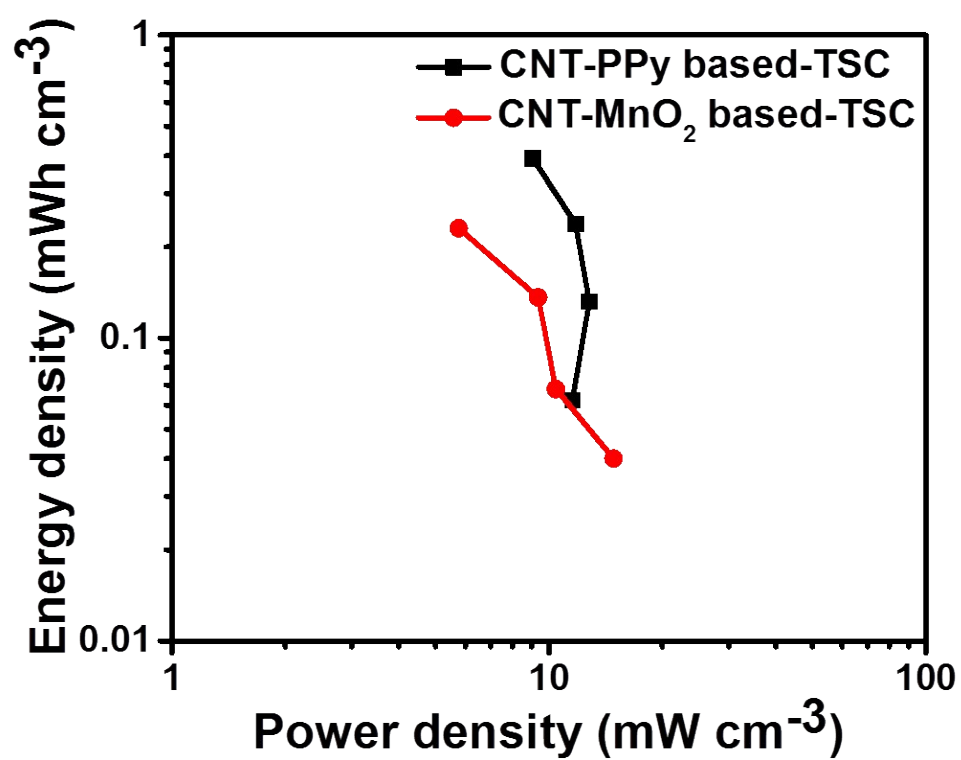


Figure S9 Ragone plots of the TSCs device