RuO_2 Nanorods on Electrospun Carbon Nanofibers for Supercapacitors

Sohyun Jeon[†, §], Ji Hwan Jeong[‡, §], Hyomin Yoo[†], Hak Ki Yu[‖], Bo-Hye Kim[‡*], and Myung Hwa Kim[†*]

[†]*Department of Chemistry & Nanoscience, Ewha Womans University, Seoul, 13760, Korea*

[‡]*Department of Science Education, Chemistry Education Major, Daegu University, 201 Daegudae-ro, Gyeongsan-si, Gyeongsangbuk-do, 712-714, Korea*

[‖]*Department of Materials Science and Engineering & Dept. of Energy Systems Research, Ajou University, Suwon, 16499, Korea*

§: Both authors contributed equally to this work.

[*]Corresponding author
E-mail addresses: myungkim@ewha.ac.kr (M.H. Kim), bohye@daegu.ac.kr (B.-H. Kim)

Figure S1. The average diameter of the pure CNF as a function of annealing time at 180°C.(N=50)

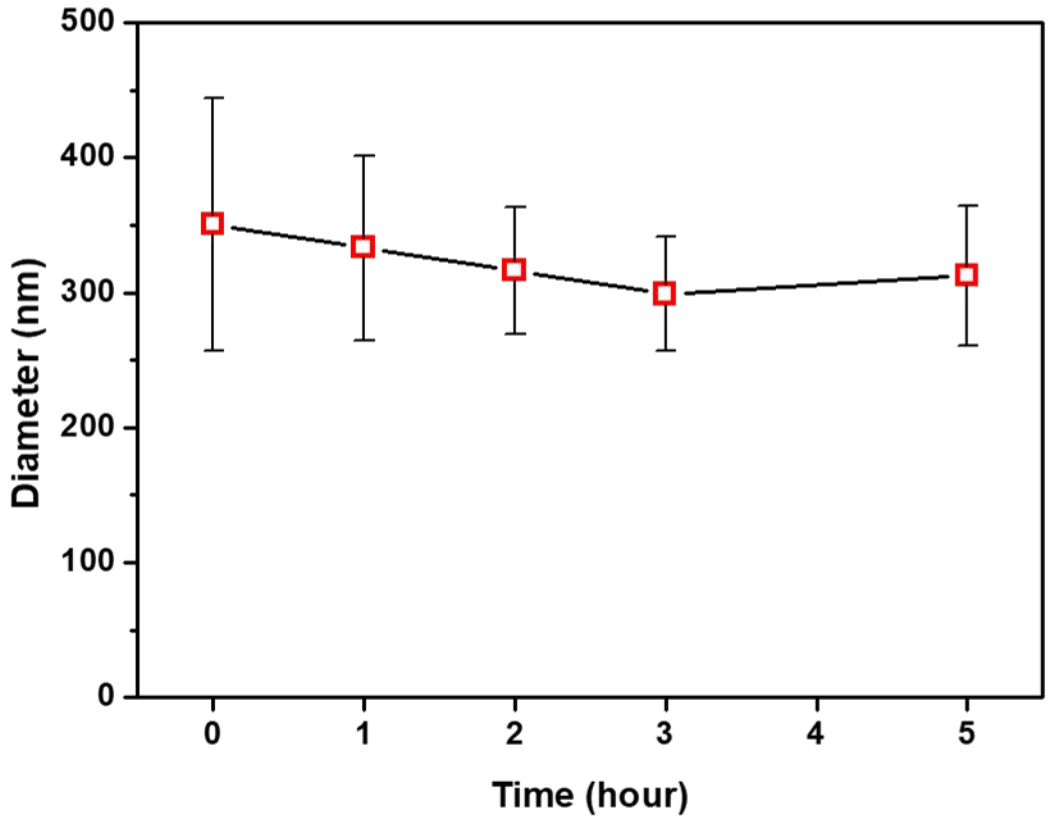

Figure S2. The optical photographs and contact angle measurement images of (a) CNF and (b) RuO_2-CNF(220).

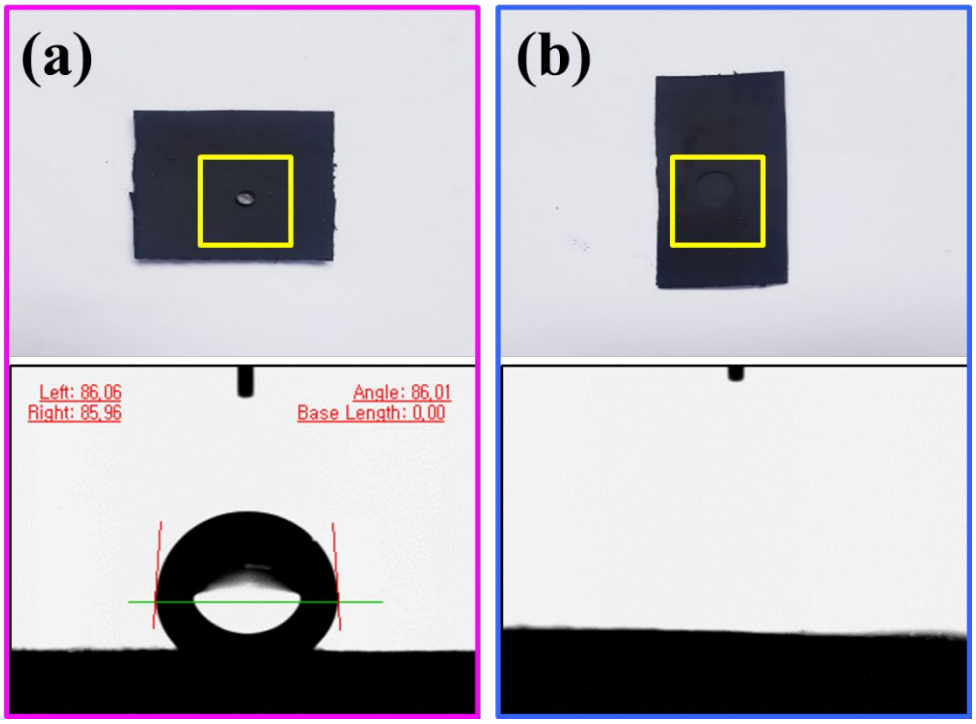

Figure S3. Total specific capacitance (C_{sp}) at current density of 3 $mAcm^{-2}$ and specific capacitance of RuO_2 component (C_{sp}^{Ru}).