In-situ chemical synthesis of ruthenium oxide/reduced graphene oxide nanocomposites for electrochemical capacitor applications

Ji-Young Kim, Kwang-Heon Kim, Seung-Beom Yoon, Hyun-Kyung Kim, Sang-Hoon Park and Kwang-Bum Kim*

Department of Materials Science and Engineering, Yonsei University

134 Shinchon-dong, Seodaemoon-gu, Seoul 120-749 (Korea)

E-mail: <u>kbkim@yonsei.ac.kr</u>

Experimental

Synthesis of FeOOH on GO by in-situ chemical synthesis:

FeCl₂•nH₂O (Aldrich) was added into the GO dispersion and the solution was stirred for several hours. The resulting suspension was filtered, and the residue was washed with ethanol and water and dried in the freeze dryer.

S1. (a) HRTEM image of FeOOH/RGO composites by in-situ chemical synthesis (insets show

HRTEM images)



S2. XPS spectra of C1s of FeOOH/GO composites by in-situ chemical synthesis

