

Dodecyl Sulfate Induced Fast Faradic Process in Nickel Cobalt oxide/Reduced Graphite Oxide Composite Material and Its Application for Asymmetric Supercapacitor Device

Xu Wang,^a Wan Shuang Liu,^a Xue Hong Lu^a and Pooi See Lee^{*a}

[†]School of Materials Science and Engineering, Nanyang Technological University, Singapore

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* Corresponding author Email: pslee@ntu.edu.sg

Raman spectrum of sample SG-2

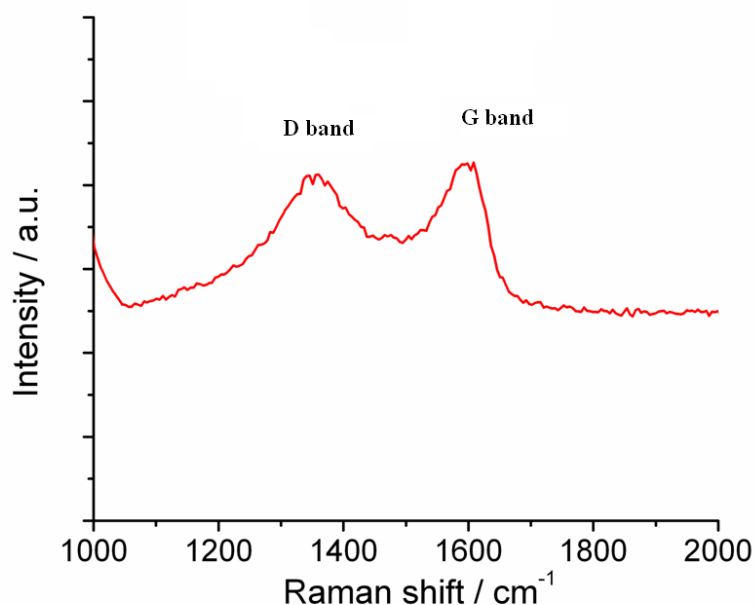


Figure S1. Raman spectrum of sample SG-2.

SEM image and EDX spectrum of sample SG-2

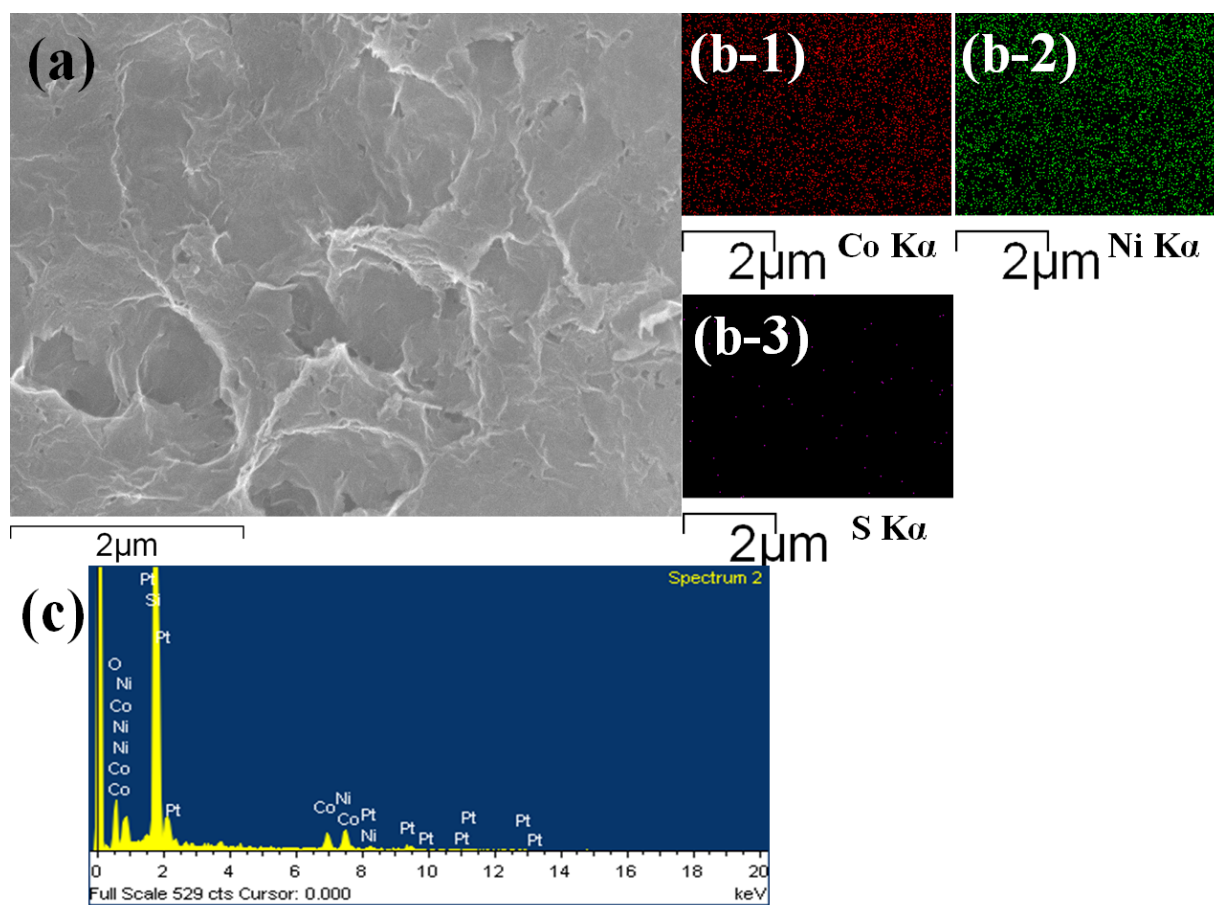


Figure S2. (a) Micrograph of sample SG-2 (yellow line indicates the EDX line scan path); (b) EDX elements mapping of Co K α , Ni K α and S K α ; (c) EDX of sample SG-2.

Electrochemical characterizations of different samples

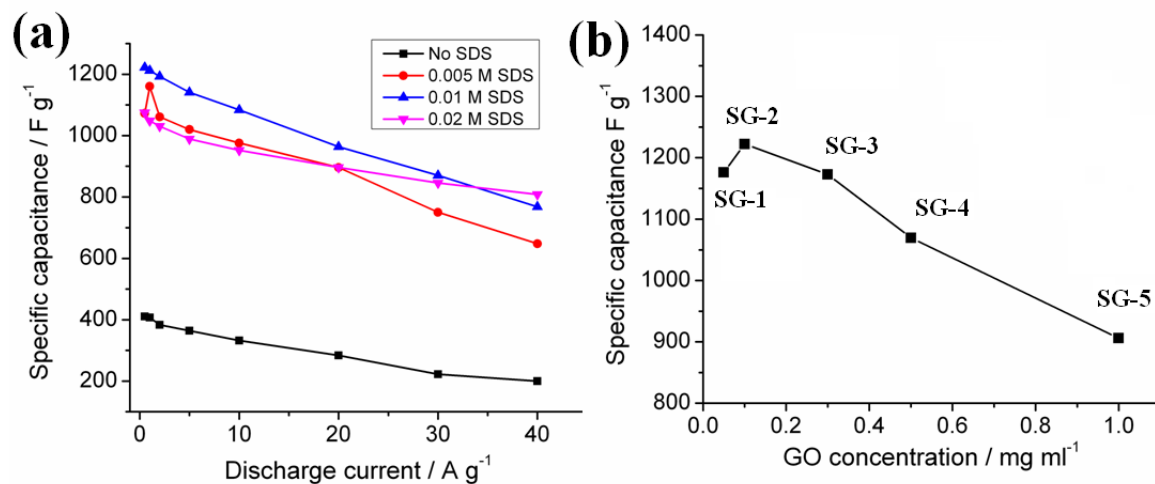


Figure S3. (a) Relationship between specific capacitance and discharge current of different SDS concentrations; (b) relationship between specific capacitance at $0.5 A g^{-1}$ and GO concentration in the stating solutions.

SEM images of $\text{NiCo}_2\text{O}_4/\text{rGO}$ composite prepared without SDS

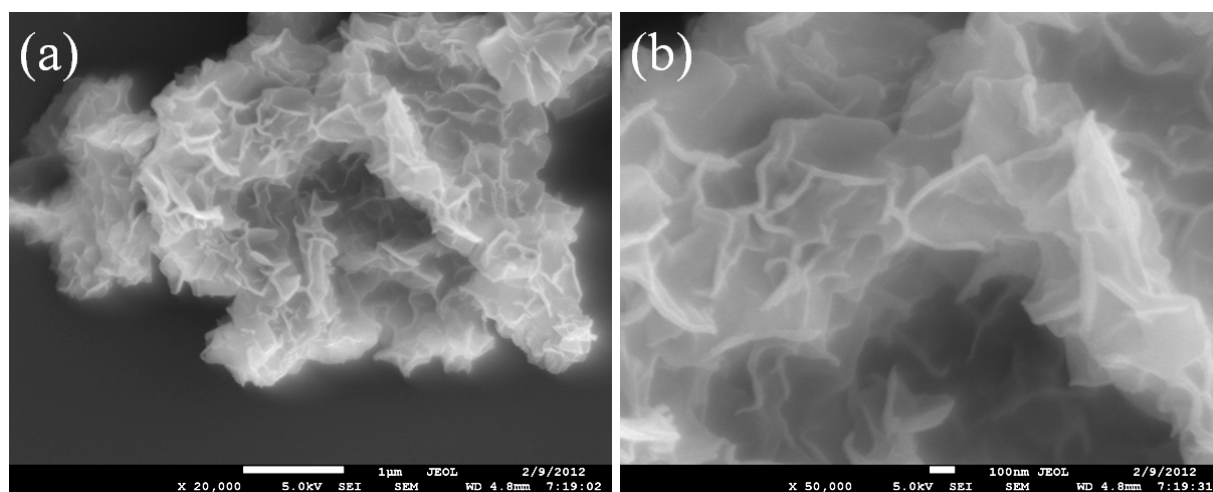


Figure S4. SEM images of (a) low magnification and (b) high magnification $\text{NiCo}_2\text{O}_4/\text{rGO}$ composite material prepared without SDS in starting solution.

Electrochemical characterization of activated carbon

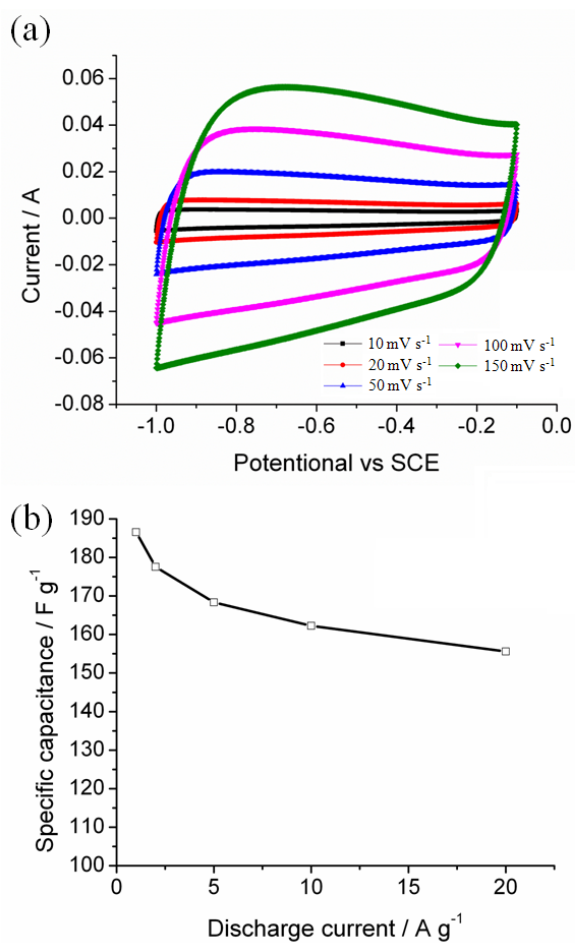


Figure S5. (a) CV curves of activated carbon in 2 M KOH at different scan rates; (b) specific capacitance vs discharge current relationship of activated carbon.