

Supporting Information

Unlocking the potential of novel hierarchical hybrid (Ni-Co)Se₂@NiMoO₄@rGO-NF core-shell electrode for high-performance hybrid supercapacitors

Jiwan Acharya^{a,b}, Bishweshwar Pant^{a,b}, Gunendra Prasad Ojha^{a,b}, Mira Park^{a,b*}

^aCarbon Composite Energy Nanomaterials Research Center, Woosuk University, Wanju, Chonbuk,
55338, Republic of Korea

^bWoosuk Institute of Smart Convergence Life Care (WSCLC), Woosuk University, Wanju, Chonbuk,
55338, Republic of Korea

*Corresponding author:

Mira Park, E-mail: wonderfulmira@woosuk.ac.kr

Figure S1

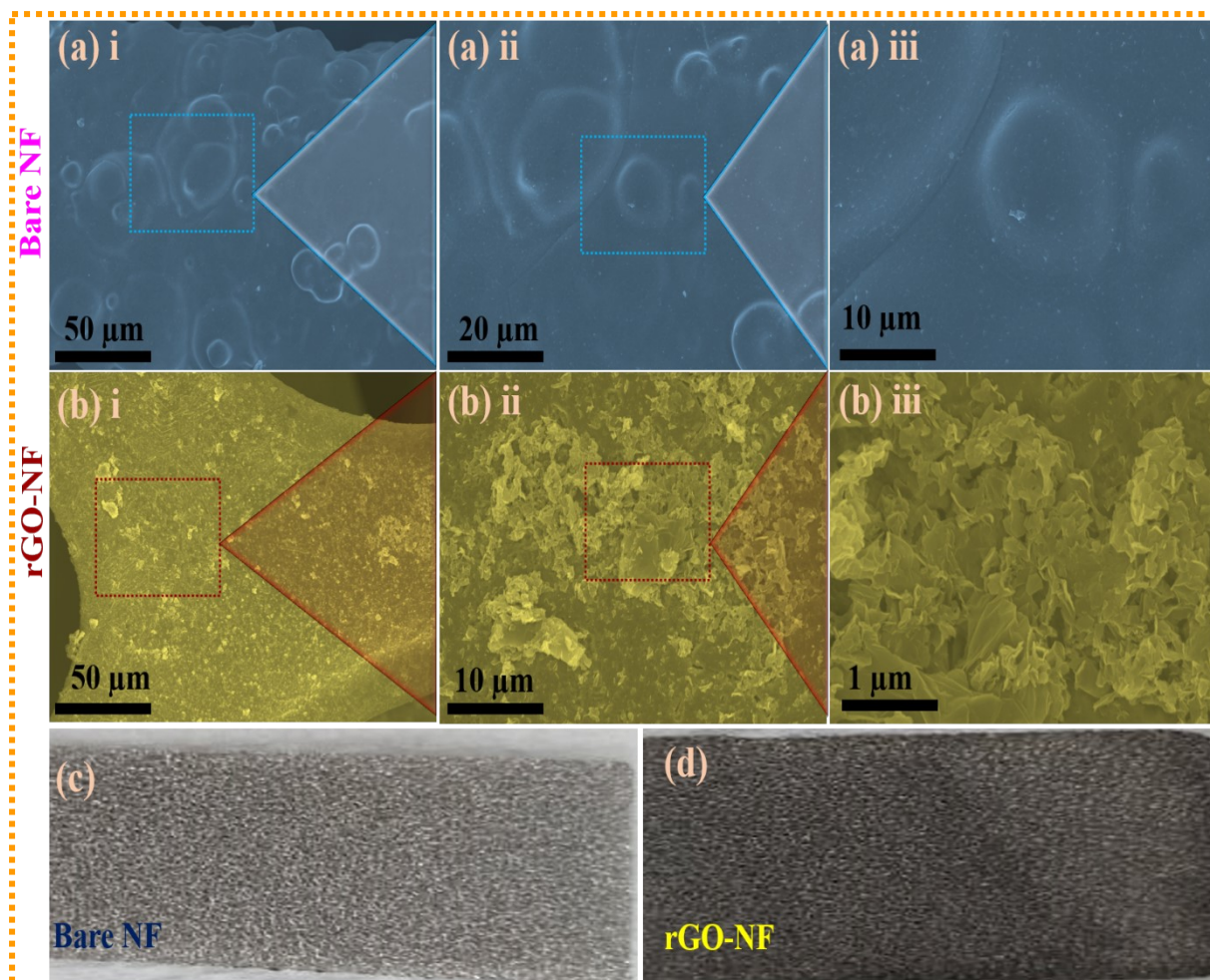


Fig. S1. FESEM images (ai-iii) bare Ni foam, (bi-iii) rGO-NF, digital images of (c) Bare NF, and (d) rGO-NF.

Figure S2

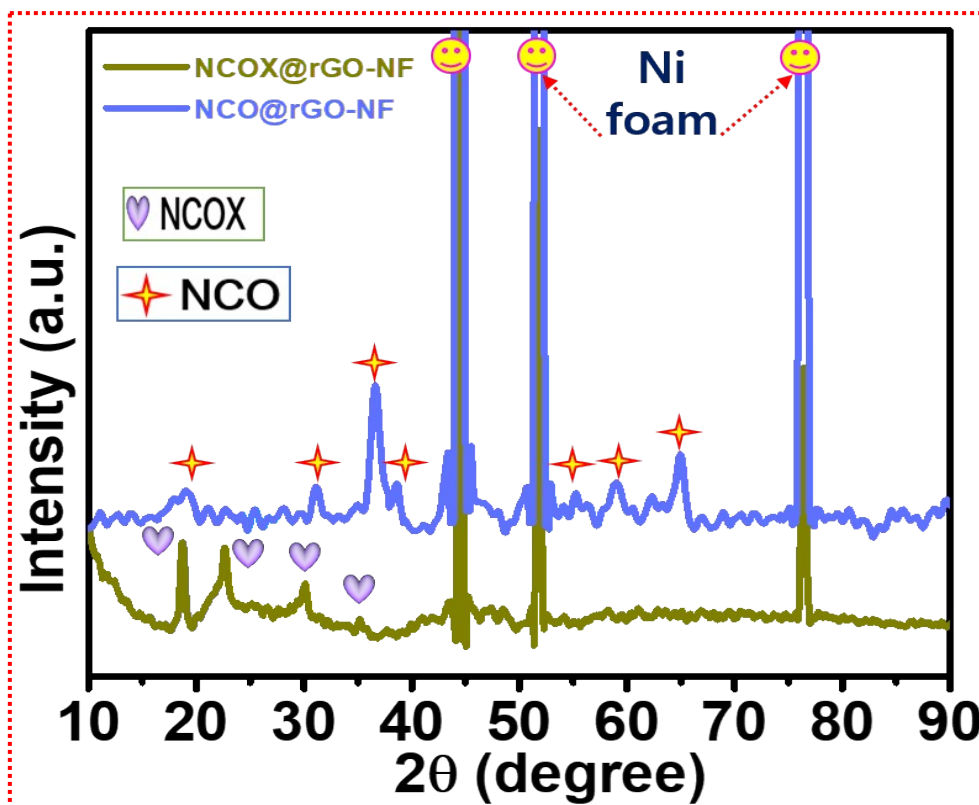


Fig. S2. XRD profile of NCO_x@rGO-NF.

Figure S3

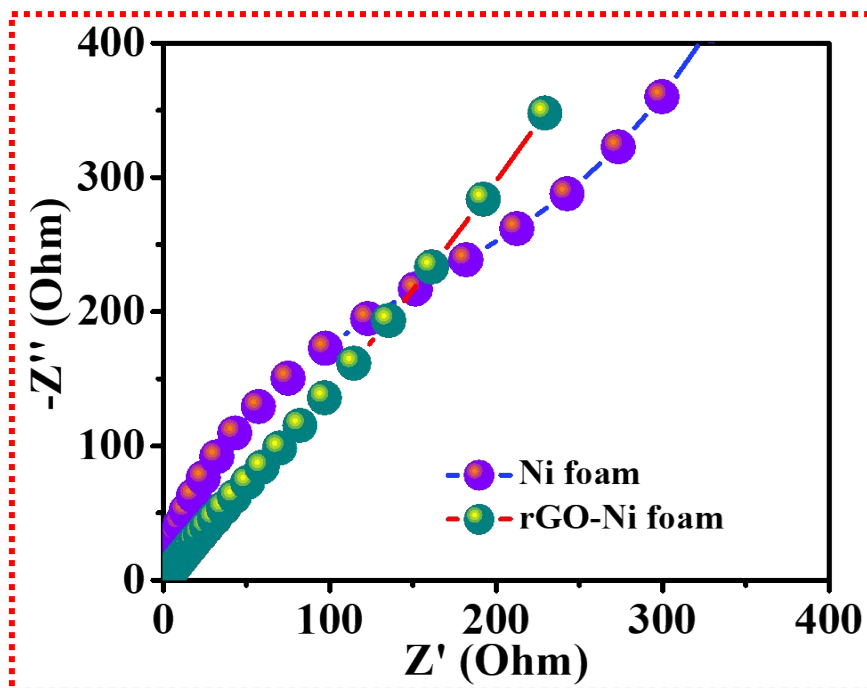


Fig. S3. EIS of bare NF and rGO-NF.

Figure S4

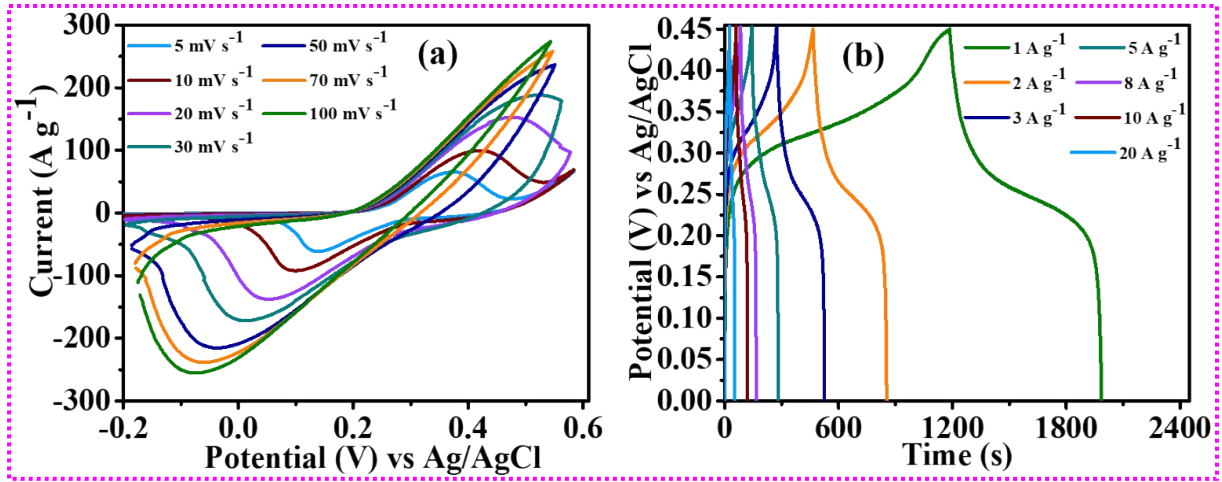


Fig. S4. (a) CV, and (b) GCD profiles of NCSe@rGO-NF.

Figure S5

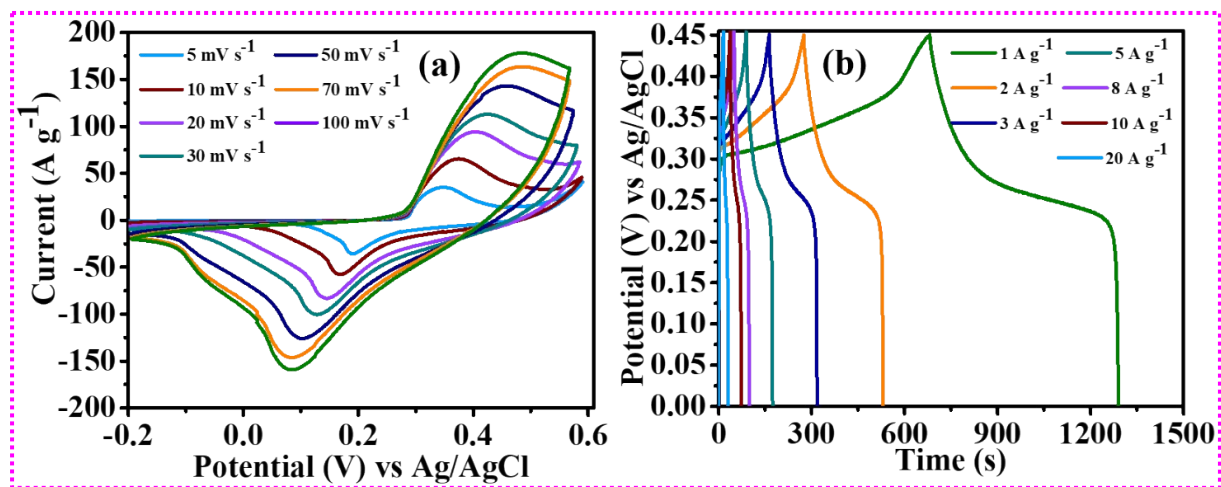


Fig. S5. (a) CV, and (b) GCD profiles of NMO@rGO-NF.

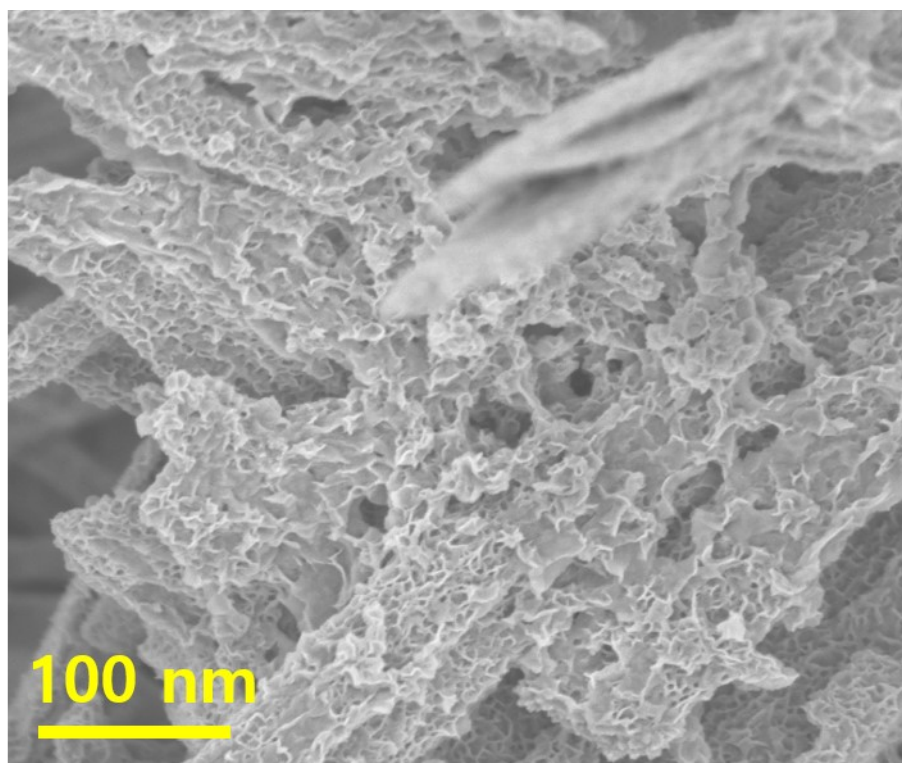


Fig. S6. FESEM image of NCSe@NMO@rGO-NF after consecutive 8000 GCD cycles.