

## Supplementary Materials

### Construction of hierarchical $\text{CuO}/\text{Cu}_2\text{O}@/\text{NiCo}_2\text{S}_4$ nanowire arrays on copper foam for high performance supercapacitor electrodes

Luoxiao Zhou, Ying He, Congpu Jia, Vladimir Pavlinek, Petr Saha, Qilin Cheng

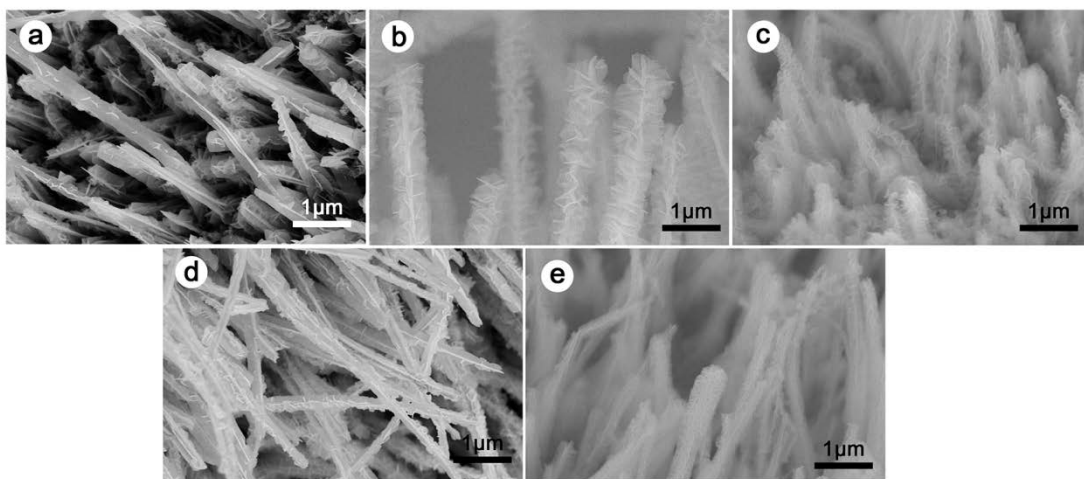


Figure S1. SEM images of (a)  $\text{CuO}/\text{Cu}_2\text{O}@/\text{NiCo}_2\text{S}_4$ -1, (b)  $\text{CuO}/\text{Cu}_2\text{O}@/\text{NiCo}_2\text{S}_4$ -2, (c)  $\text{CuO}/\text{Cu}_2\text{O}@/\text{NiCo}_2\text{S}_4$ -3, (d)  $\text{CuO}/\text{Cu}_2\text{O}@/\text{NiCo}_2\text{S}_4$ -4, (e)  $\text{CuO}/\text{Cu}_2\text{O}@/\text{NiCo}_2\text{S}_4$ -5

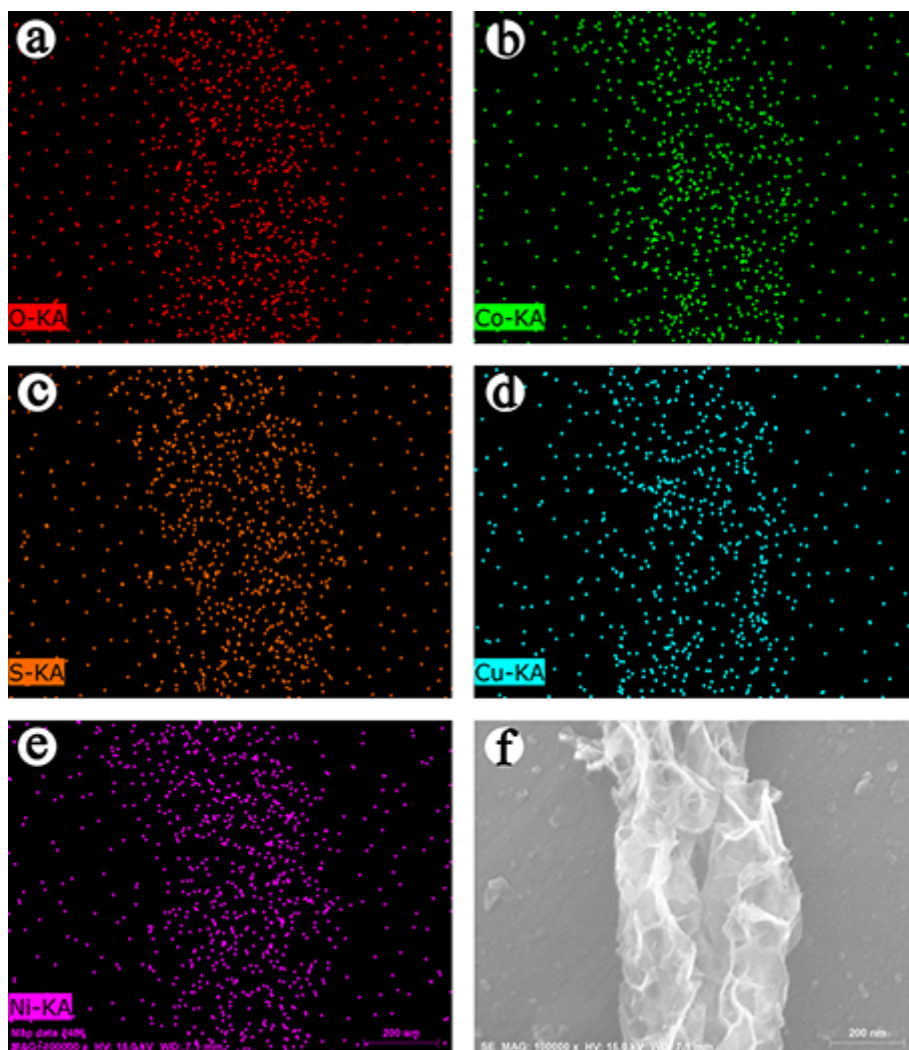


Figure S2. EDS mapping of (a) O element, (b) Co element, (c) S element and (d) Cu elements (e) Ni element and (f) the cross section of CuO/Cu<sub>2</sub>O@ NiCo<sub>2</sub>S<sub>4</sub>-4.