

Supporting Information

Cobalt sulfide nanosheets coated on NiCo_2S_4 nanotube arrays as electrode materials for high-performance supercapacitors

Wenbin Fu, Changhui Zhao, Weihua Han,* Ying Liu, Hao Zhao, Yufang Ma and Erqing Xie*

School of Physical Science and Technology, Lanzhou University, Lanzhou 730000, China.

Fax: (+86) 931 8913554; Tel: (+86) 931 8912616;

Email: hanwh@lzu.edu.cn (Weihua Han); xieeq@lzu.edu.cn (Erqing Xie).

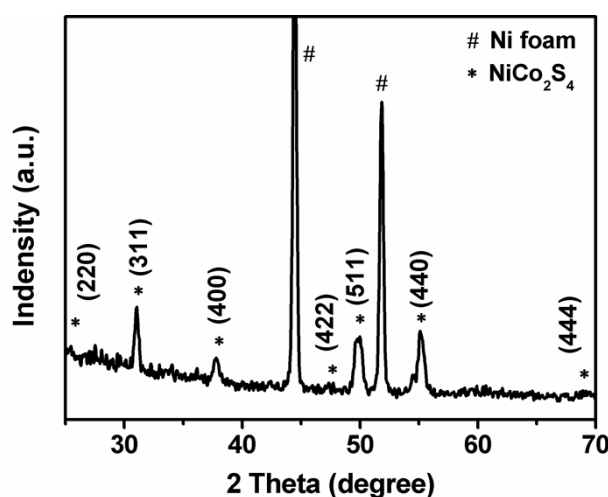


Fig. S1 XRD pattern of NiCo_2S_4 nanotube arrays on Ni foam.

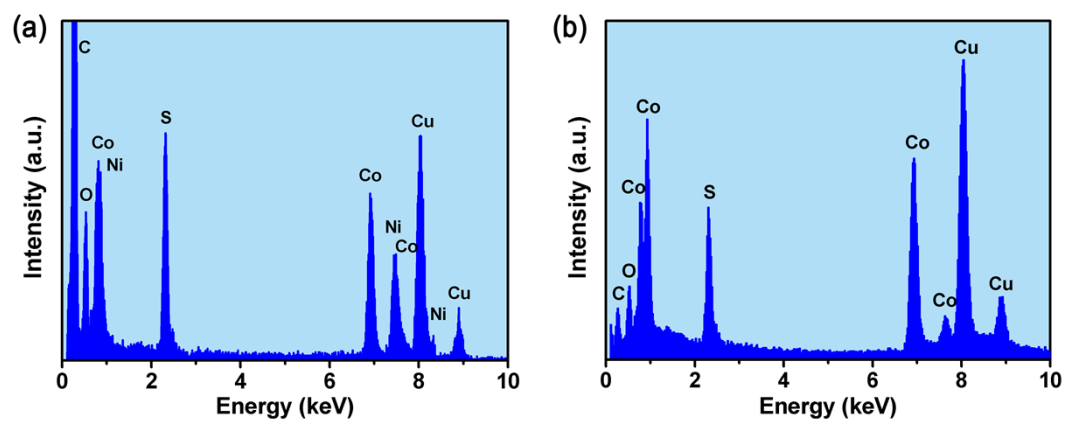


Fig. S2 EDX spectra of the NiCo_2S_4 nanotubes (a) and the CoS_x nanosheets (b).

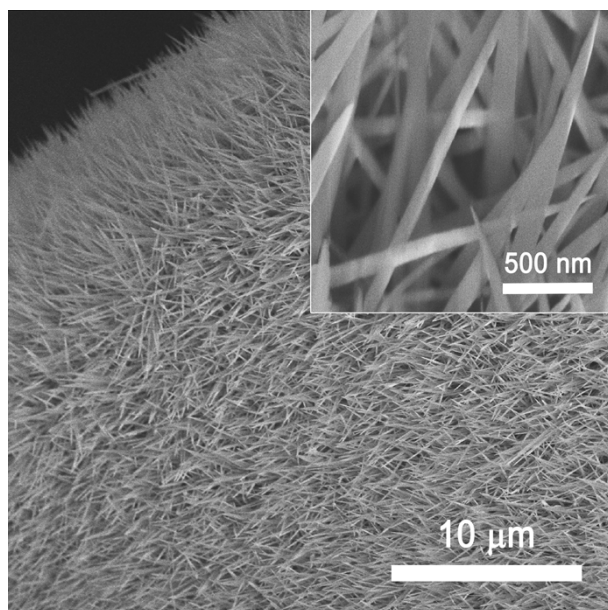


Fig. S3 SEM image of NiCo_2S_4 precursors.

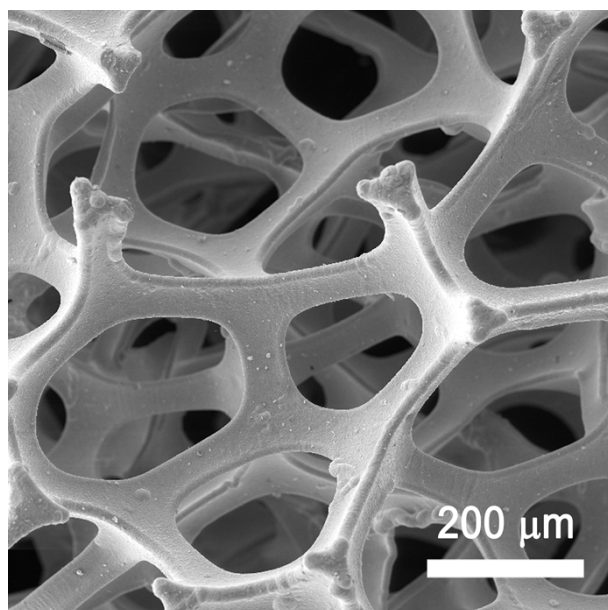


Fig. S4 SEM image of Ni foam.

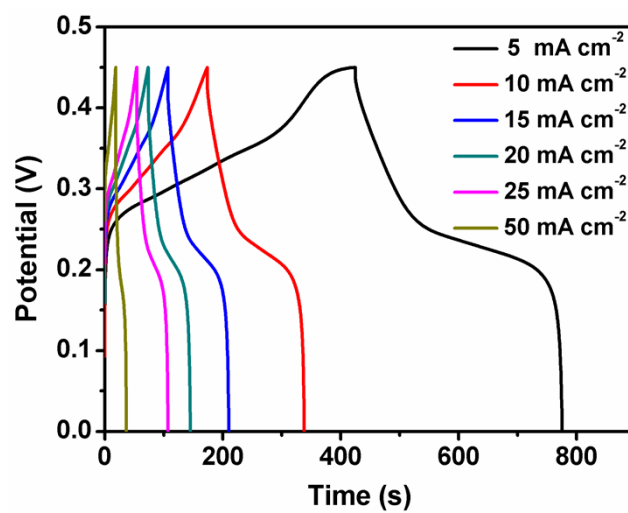


Fig. S5 GCD curves of NiCo_2S_4 electrode.

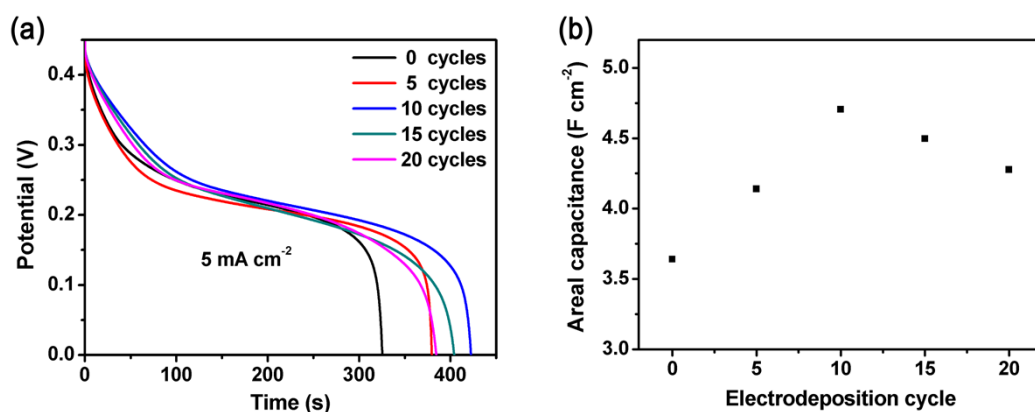


Fig. S6 (a) Discharging curves of the NiCo₂S₄@CoS_x electrodes with different amounts of CoS_x at a current density of 5 mA cm⁻². (b) The area capacitances as a function of the CoS_x electrodeposition cycles.