Electronic Supporting Information

Homogeneous core–shell $NiCo_2S_4$ nanostructure supported on nickel foam for supercapacitors

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Figure S1. Photographs of (a) nickel foam, (b) precursor loaded nickel foam and (c) $NiCo_2S_4$ loaded nickel foam.

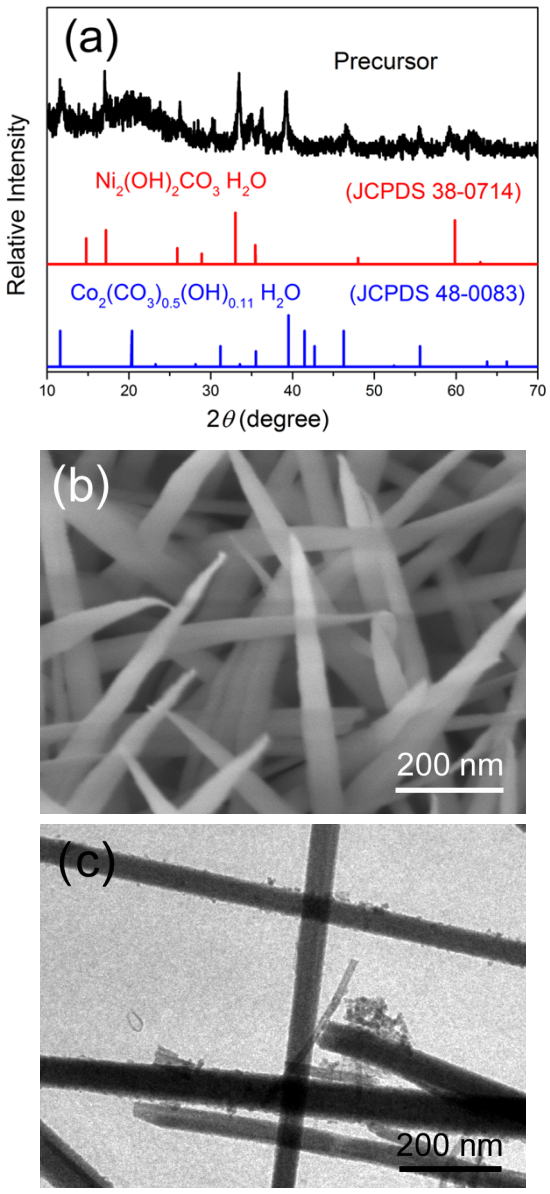

Figure S2. (a) XRD, (b) SEM and (c) TEM images of the precursor.

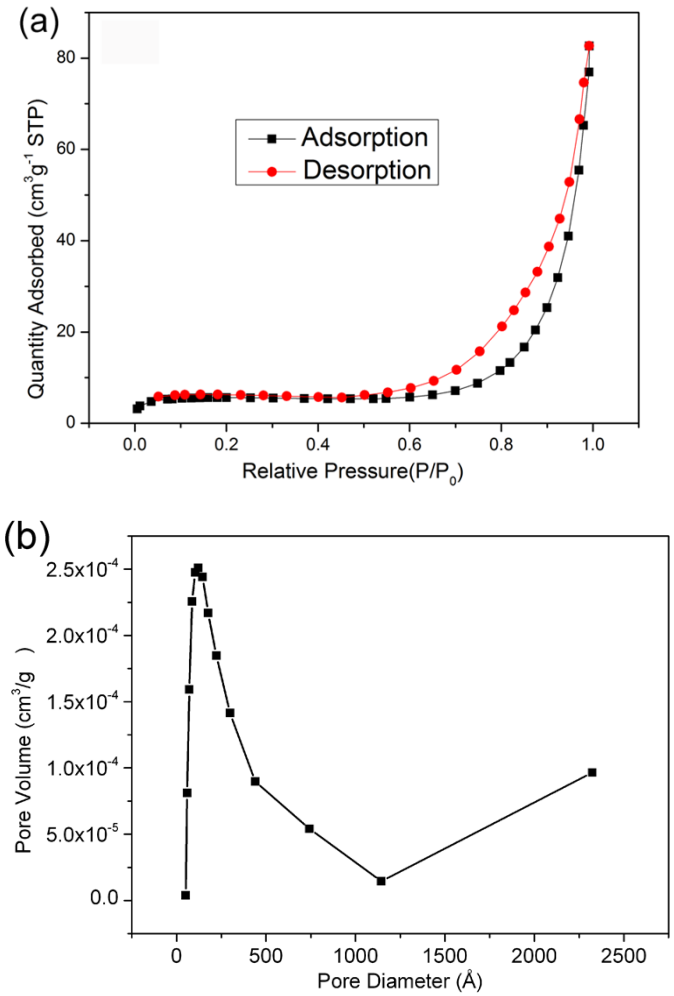

Figure S3. (a) N_2 adoption and desorption isotherm, (b) BJH pore size distribution of the core–shell $NiCo_2S_4$ sample.

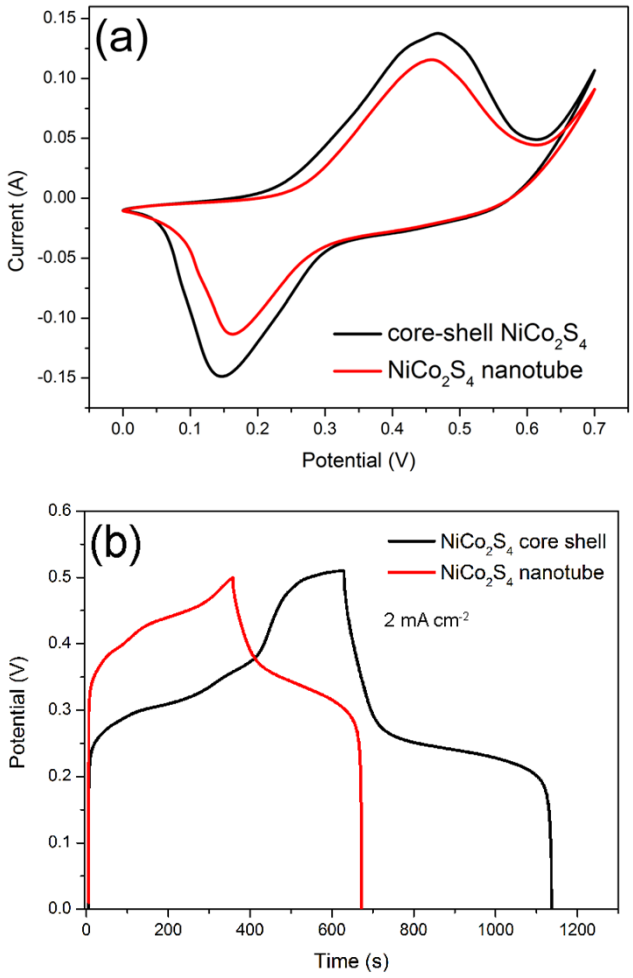

Figure S4. (a) CV curves of core–shell structured $NiCo_2S_4$ and $NiCo_2S_4$ nanotubes; (b) charge–discharge curves of core–shell structured $NiCo_2S_4$ and $NiCo_2S_4$ nanotubes.

Figure S5. (a) CV curves of the porous carbon; (b) charge–discharge curves of the porous carbon.

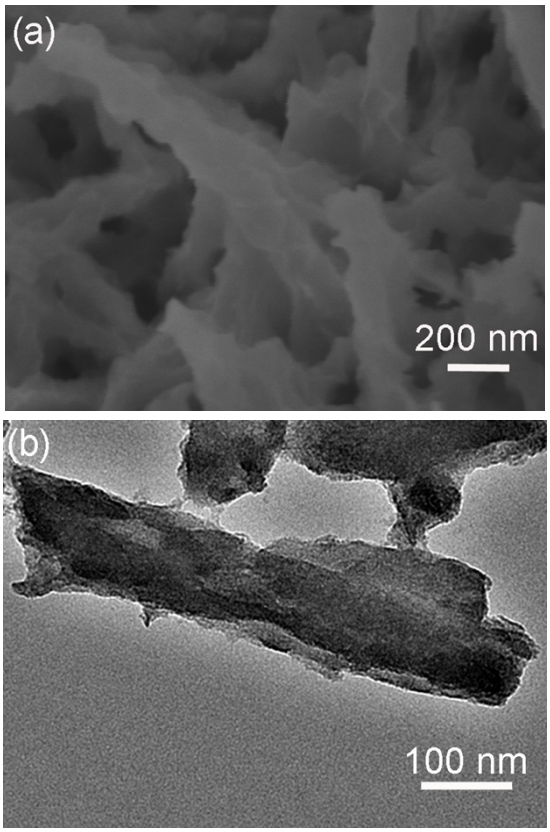

Figure S6. (a) SEM and (b) TEM images of $NiCo_2S_4$ sample after 5000 cycles.

Figure S7. Photograph of a red LED lighted up by two $NiCo_2S_4$//C devices in series.