Supporting Information

Ni$_3$S$_2$@CoS core-shell nano-triangular pyramid arrays on Ni foam for high-performance supercapacitors

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Fig. S1 SEM images of the Ni$_3$S$_2$ obtained by different hydrothermal reaction temperature:
(a) 120 °C, (b) 140 °C and (c) 160 °C

Fig. S2 Powder XRD patterns of the Ni$_3$S$_2$ NTP arrays and Ni$_3$S$_2$@CoS core-shell NTP arrays on Ni foam
**Fig. S3** CV curves of CoS electrode at 5 mV s$^{-1}$.

**Fig. S4** (a) the low-magnification and (b) high-magnification FESEM images of Ni$_3$S$_2$@CoS after 2000 cycles.