

Supporting Information

N-doped carbon coated hollow $\text{Ni}_x\text{Co}_{9-x}\text{S}_8$ urchins for high-performance supercapacitors

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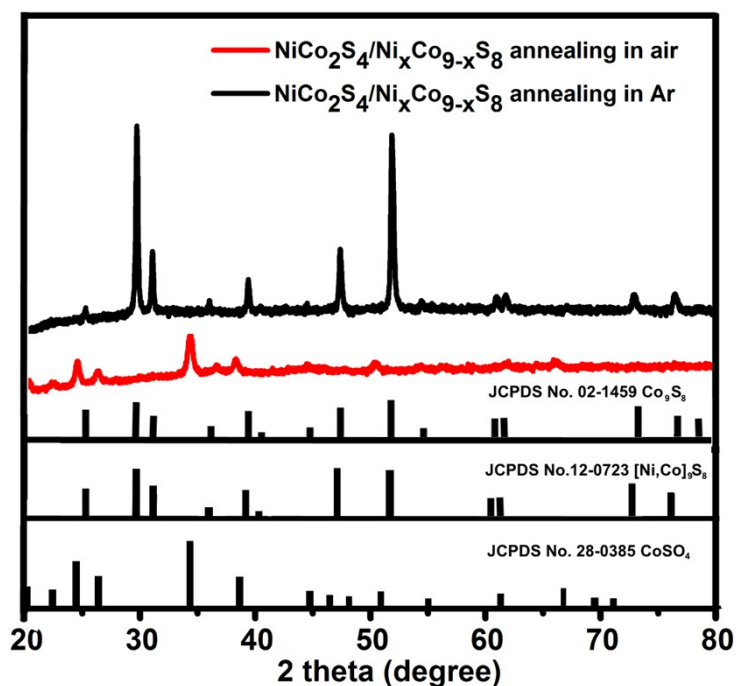


Figure S1 XRD patterns of $\text{NiCo}_2\text{S}_4/\text{Ni}_x\text{Co}_{9-x}\text{S}_8$ after annealing in air and Ar.

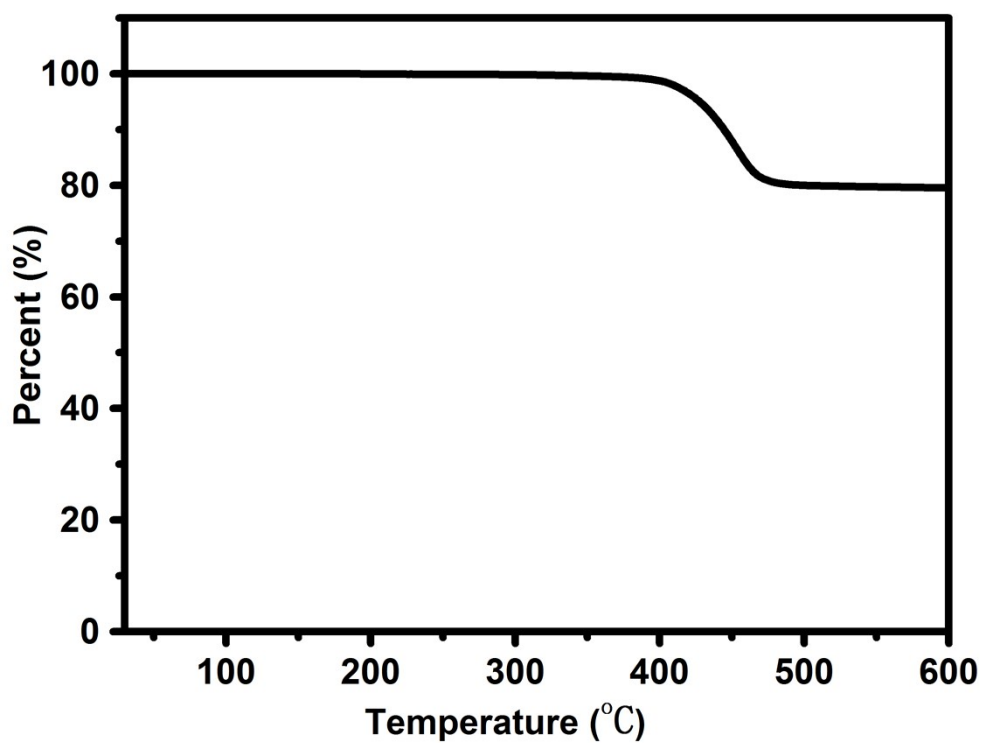


Figure S2 TGA curve of $\text{Ni}_x\text{Co}_{9-x}\text{S}_8@\text{C}$.

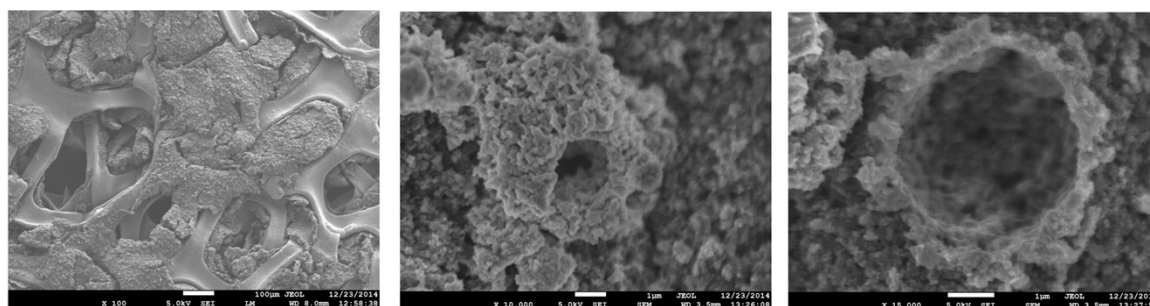


Figure S3 SEM images $\text{Ni}_x\text{Co}_{9-x}\text{S}_8@\text{C}$ pasted on Ni foam after 2000 cycles measured at different magnification.