Supporting Information

Formation of $CoNi_2S_4$ nanofibers with 3D hierarchical pompom-like structure for high-rate electrochemical capacitors

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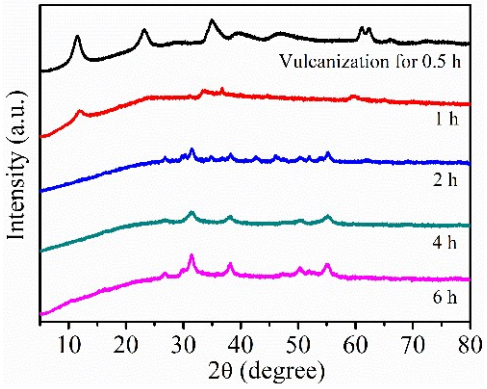

Fig. S1. XRD patterns of intermediate products obtained in the formation of pompom-like $CoNi_2S_4$ from $Co_3Ni_6(OH)_{18}(CO_3)_{1.3}$ precursor.

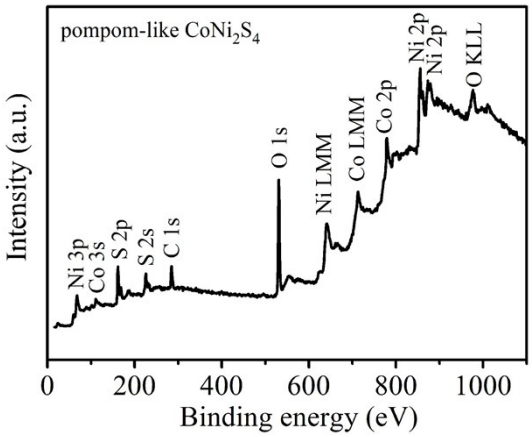

Fig. S2. XPS survey spectrum of pompom-like $CoNi_2S_4$.

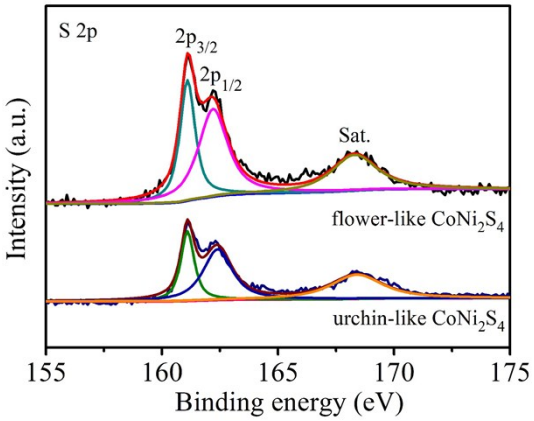

Fig. S3. Core-level XPS spectra of S 2p of flower-like and urchin-like $CoNi_2S_4$.

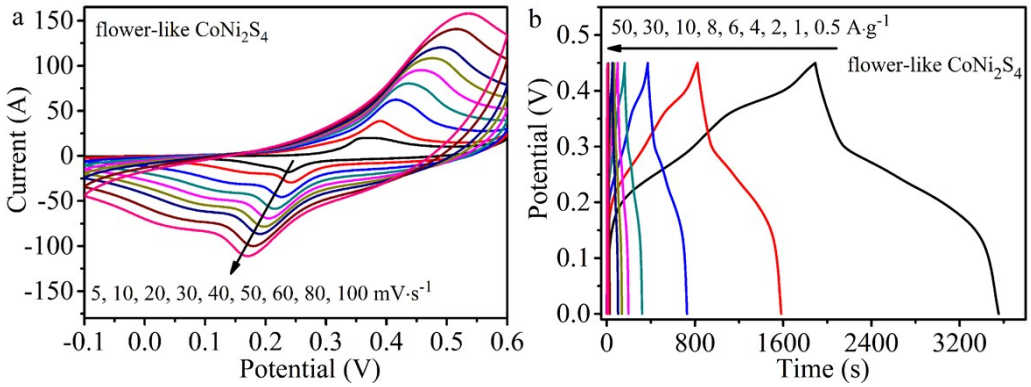

Fig. S4. CV curves at various scan rates (a) and GCD profiles at different current densities (b) of flower-like $CoNi_2S_4$.

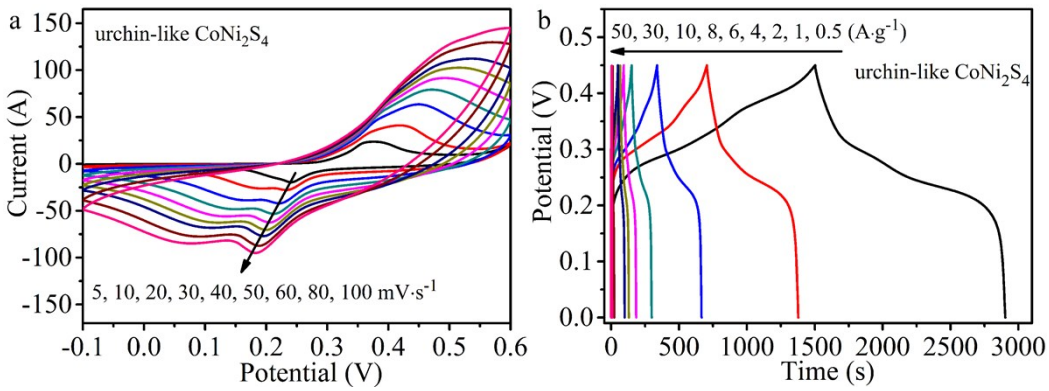

Fig. S5. CV curves at various scan rates (a) and GCD profiles at different current densities (b) of urchin-like $CoNi_2S_4$.

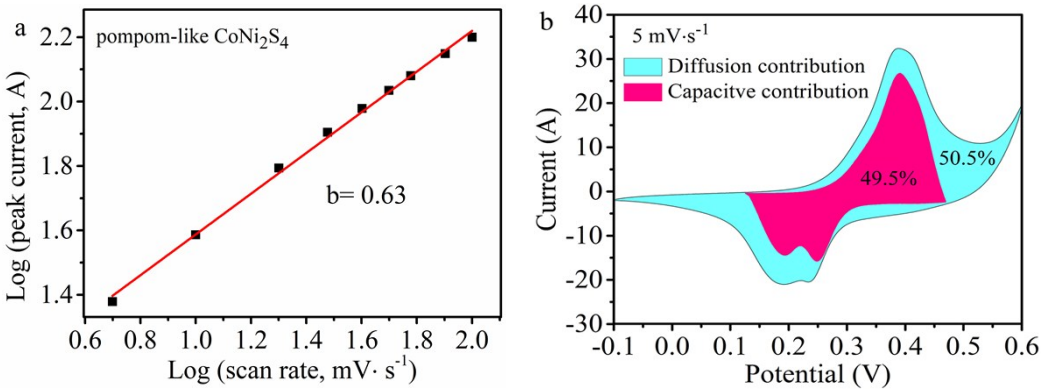

Fig. S6. Value of b determined by using the relationship between peak current and scan rate (a), contribution of diffusion-controlled process and capacitive process at 5 mV s^{-1} (b).