N-doped Carbon Foam Based Three-dimensional Electrode Architectures and Asymmetric Supercapacitors

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Figure S1. SEM images of MF before calcination.

Figure S2. (a) N$_2$ adsorption-desorption isotherms and (b) PSD curves of pure CF and CF-OMC0.5.
Figure S3. TEM image (a), and corresponding (b, c, d) elemental mappings of OMC film.

Figure S4. Electrochemical properties of pure CF: (a) CV curves at various scan rates ranged from 5 to 200 mV s\(^{-1}\). (b) Constant-current charge-discharge voltage profiles at various current densities.
Figure S5. SEM images of NiCo$_2$O$_4$ NS assembled spherical structure.

Figure S6. (a) N$_2$ adsorption-desorption isotherms and (b) PSD curve of CF-NiCo$_2$O$_4$. 
Figure S7. Electrochemical evaluations of CF (voltage window: 0-0.4 V): (a) CV curve at 5 mV s\(^{-1}\); (b) Galvanostatic charge-discharge curve at 1 A g\(^{-1}\).

Figure S8. Electrochemical properties of the NiCo\(_2\)O\(_4\) NS assembled spherical structure: (a) CV curves at various scan rates ranged from 5 to 40 mV s\(^{-1}\). (b) Constant-current charge-discharge voltage profiles at various current densities. (c) Specific capacitance as a function of current density.
Figure S9. XRD pattern of CF-NiCo$_2$O$_4$ after cycling performance.

Figure S10. TEM images of NiCo$_2$O$_4$ NS (a) before and (b) after cycling performance.