

Supporting Information

Synthesis of carbon nanomembranes through cross-linking of phenyl self-assembled monolayers for electrode materials of supercapacitors

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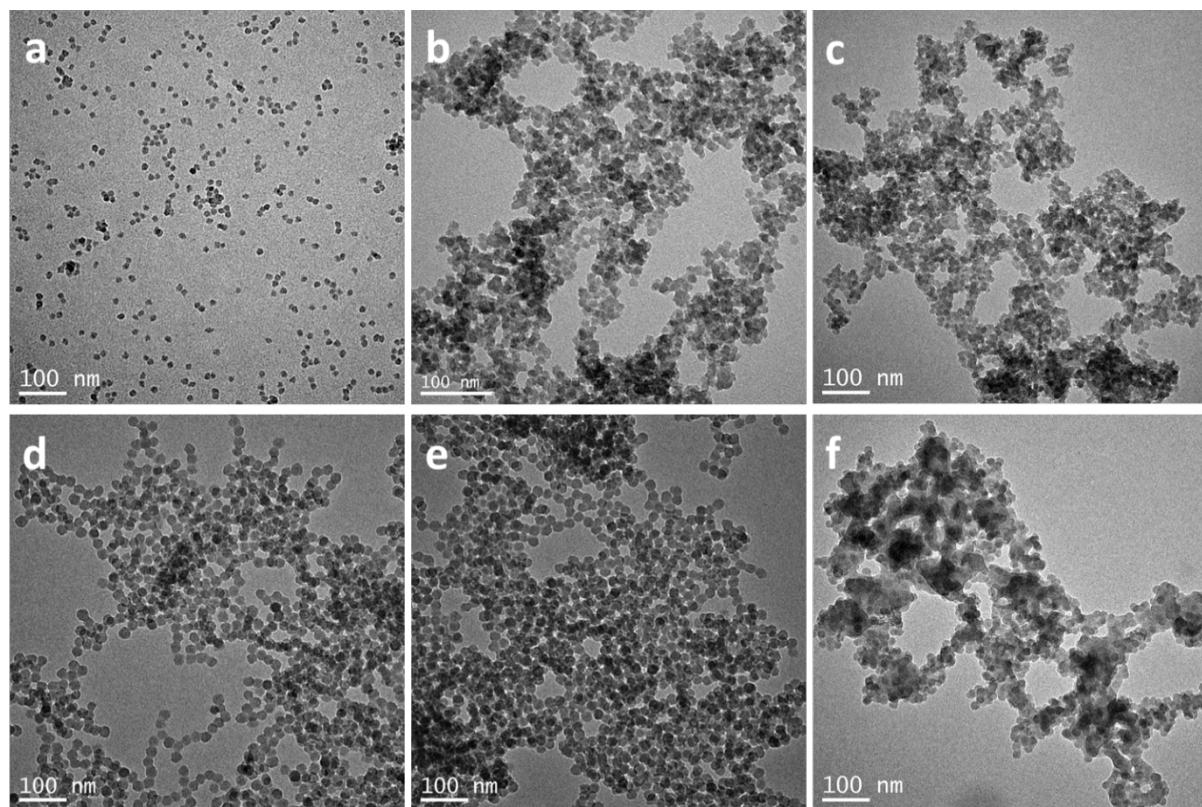


Figure S1. TEM images of Ph-SNSs. (a) SNS-10-10, (b) SNS-10-15, (c) SNS-10-20, (d) SNS-20-10, (e) SNS-20-15 and (f) SNS-20-20.

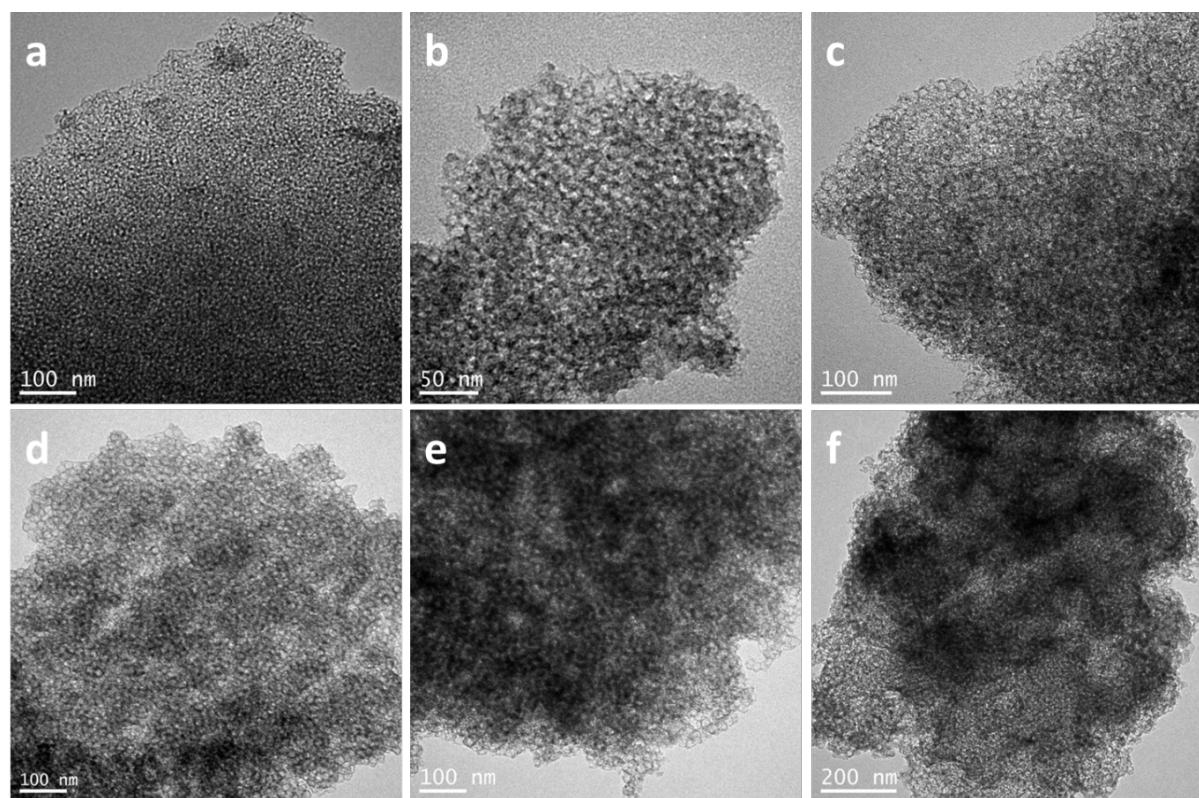


Figure S2. TEM images of CNMs obtained from Ph-SNSs. (a) CNM-10-10, (b) CNM-10-15, (c) CNM-10-20, (d) CNM-20-10, (e) CNM-20-15 and (f) CNM-20-20.

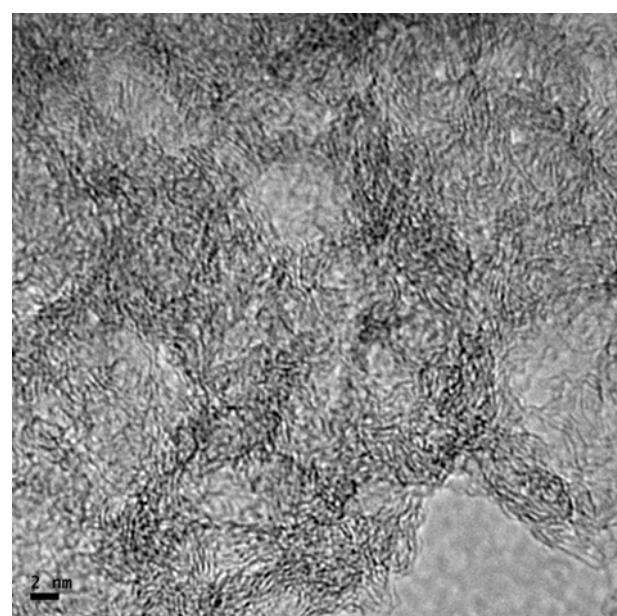


Figure S3. High resolution TEM image of CNM-10-18.

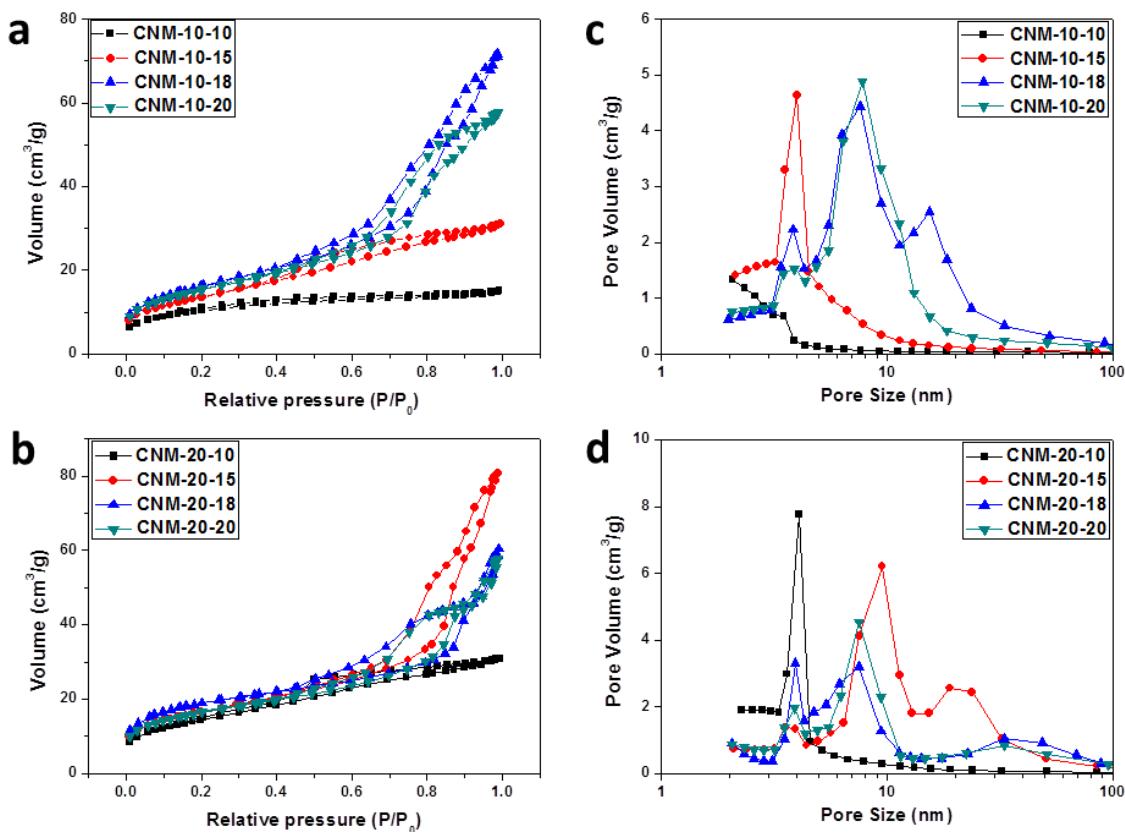


Figure S4. Nitrogen adsorption and desorption isotherm (a, b) and pore size distribution curves (c, d) of CNM-10-Ys and CNM-20-Ys.

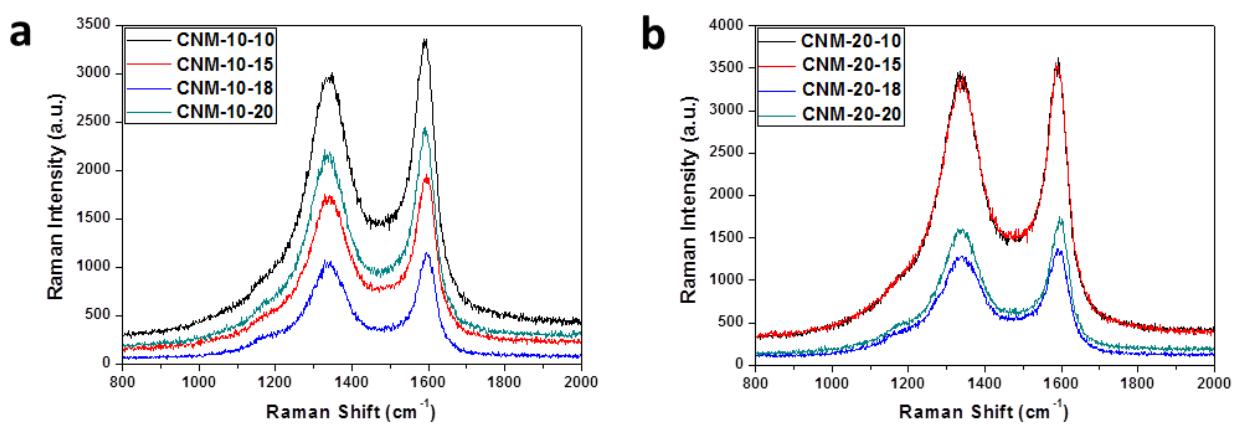


Figure S5. Raman spectra of CNM-10-Ys (a) and CNM-20-Ys (b).

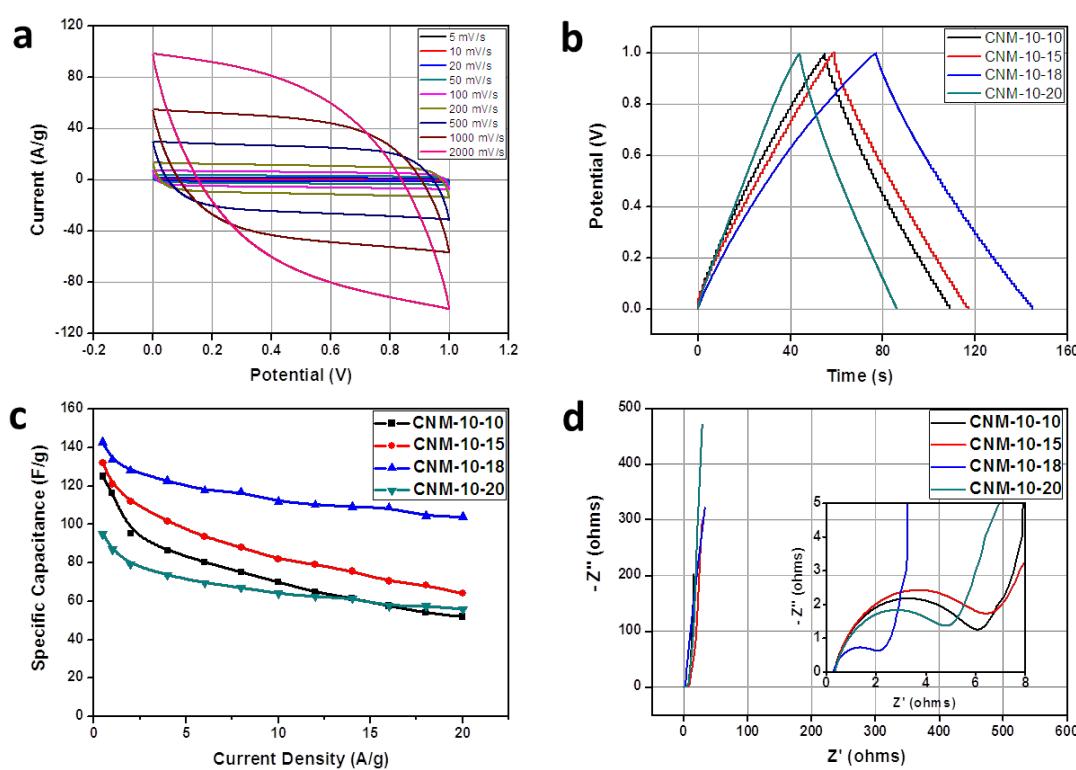


Figure S6. Electrochemical capacitive behavior of CNM-10-Ys. (a) CV curves of CNM-10-18 at different scan rates, (b) CD curves of CNM-10-Ys at 1 A/g, (c) specific capacitance and (d) impedance Nyquist plots of CNM-10-Ys.

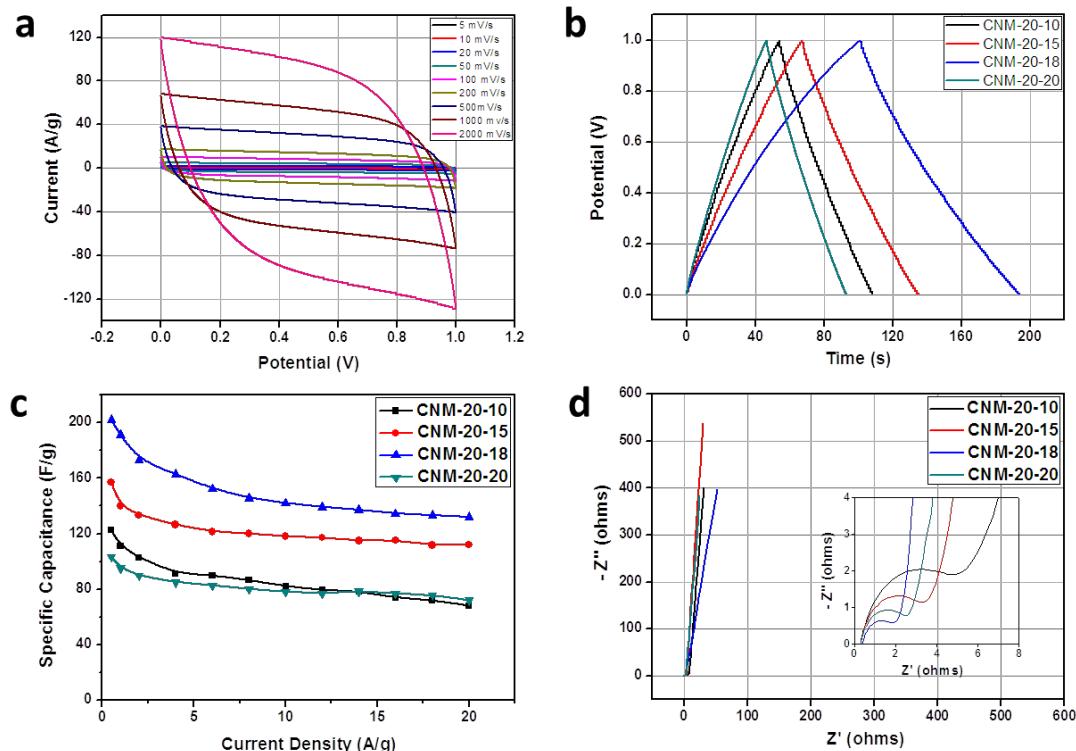


Figure S7. Electrochemical capacitive behavior of CNM-20-Ys. (a) CV curves of CNM-20-18 at different scan rates, (b) CD curves of CNM-20-Ys at 1 A/g, (c) specific capacitance and (d) impedance Nyquist plots of CNM-20-Ys.