Supporting Information

High Performance of Stretchable Carbon Nanotube-Polypyrrole Fiber Supercapacitors under Dynamic Deformation and Temperature Variation

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Figs. S1 to S6
Figure S1. (a) Optical and (b) SEM images of the as-prepared stocking-like CNT ultrathin film.

Figure S2. TEM images of pure CNT bundles (a), and CNT-PPy composites with polypyrrole content of (b) 35 wt.%, (c) 50 wt.%, and (d) 75 wt.%. 

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**Figure S3.** Electrochemical performance of CNT-PPy fiber electrodes. CV curves of the CNT-PPy electrodes with PPy content of 35 wt% (a) and 75 wt.% (b). Capacitance retention (c) and cyclic stability at scan rate 200 mV s\(^{-1}\) of different electrodes (d).

**Figure S4.** EIS spectrum of different fiber electrodes. Nyquist plot (a) and Bode plot (b, c) of the electrodes with different contents of PPy.
Figure S5. Capacitance retention of a FSSC at different scan rates.

Figure S6. Stability test of FSSC under 90° bending for 1000 times at scan rate of 100 mV s\(^{-1}\). Inset is a FSSC on PDMS bending to about 90°. Scale bar: 0.5 cm.