

## Supporting Information

### **Boosting sodium storage in flexible textile anodes via silk fibroin-derived N-doped carbon surface modulation**

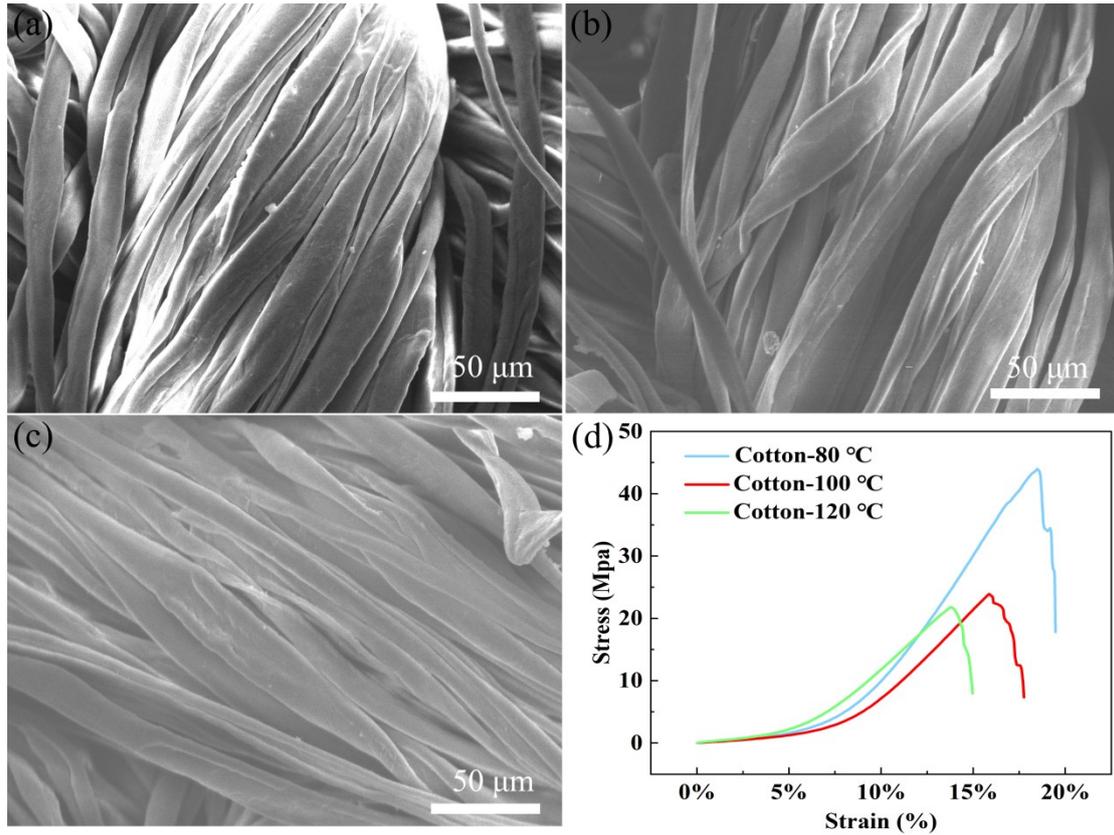
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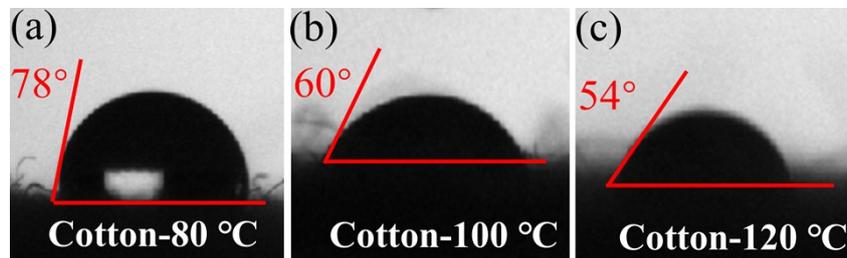
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**Fig. S1.** SEM images of (a) Cotton-80 °C, (b) Cotton-100 °C, and (c) Cotton- 120 °C.

(d) Tensile strength of different cotton samples.



**Fig. S2.** The wettability of (a) Cotton-80 °C, (b) Cotton-100 °C, and (c) Cotton- 120 °C.

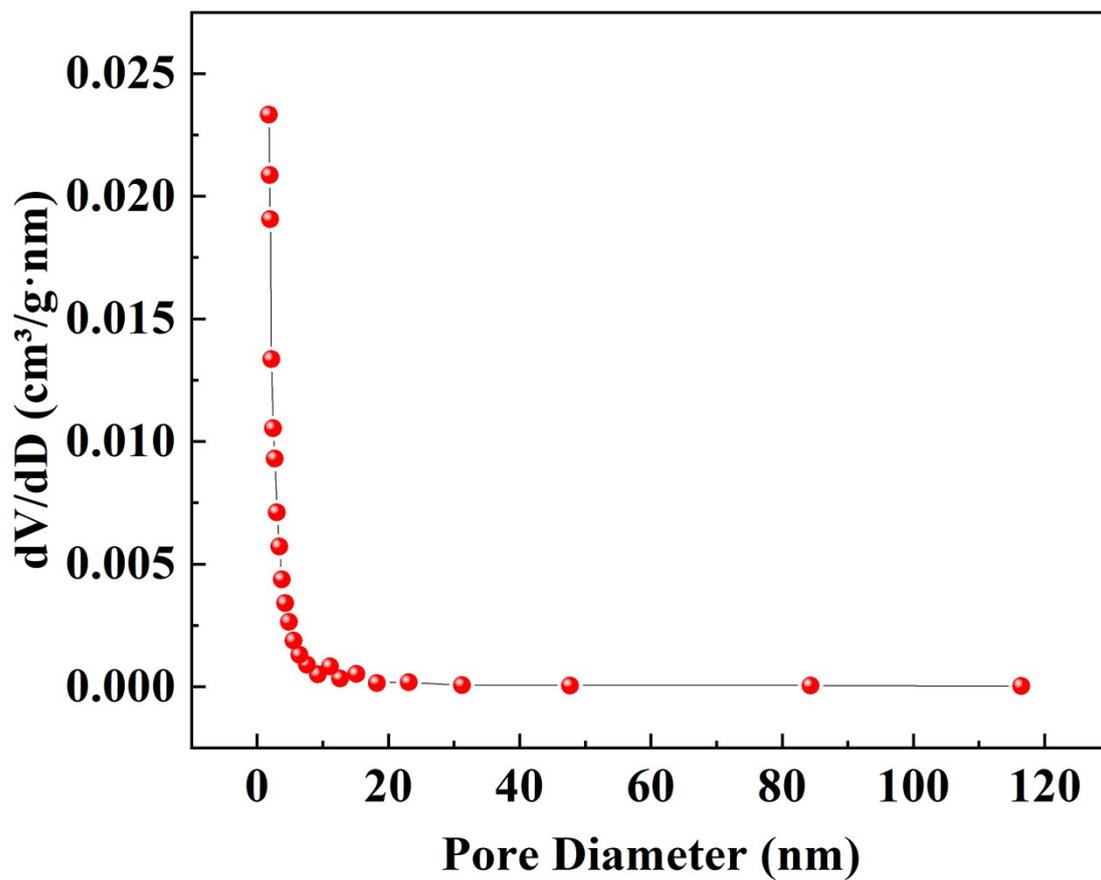


Fig. S3. Pore size distribution of CSC-700.

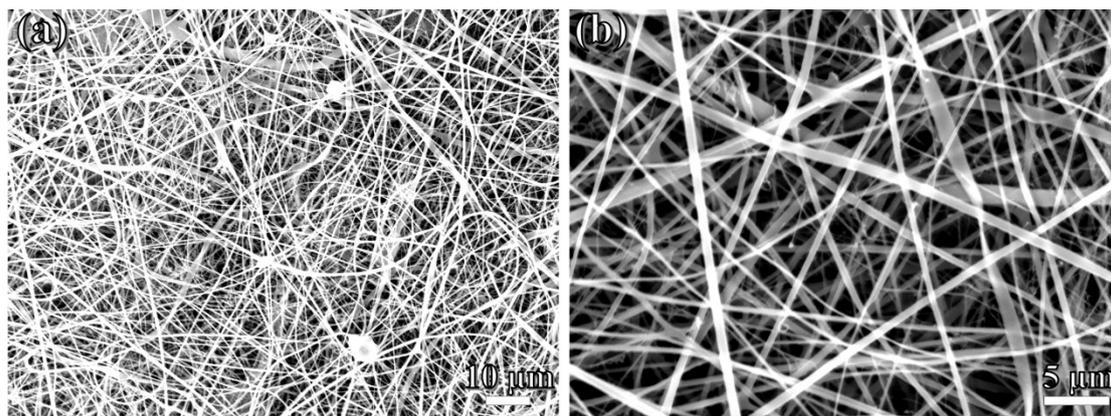
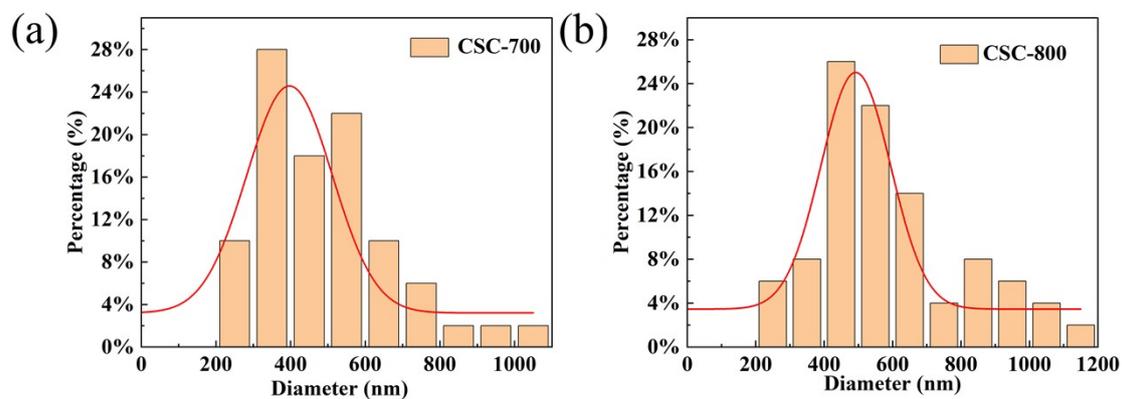
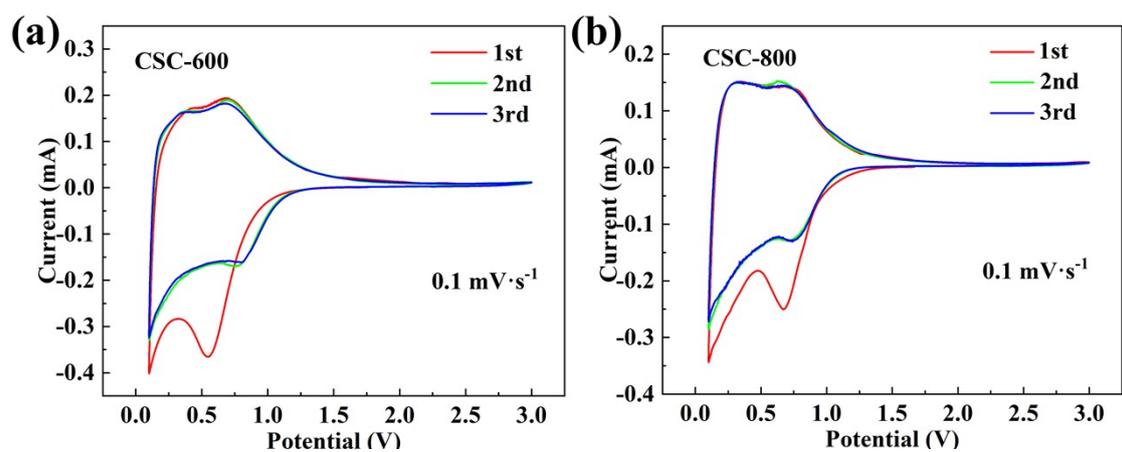


Fig. S4. SEM images of SF/cotton cloth at different magnifications.



**Fig. S5.** Size distribution of CSC-700 and CSC-800.



**Fig. S6.** CV curves of CSC-600 and CSC-800 for the first three cycles.

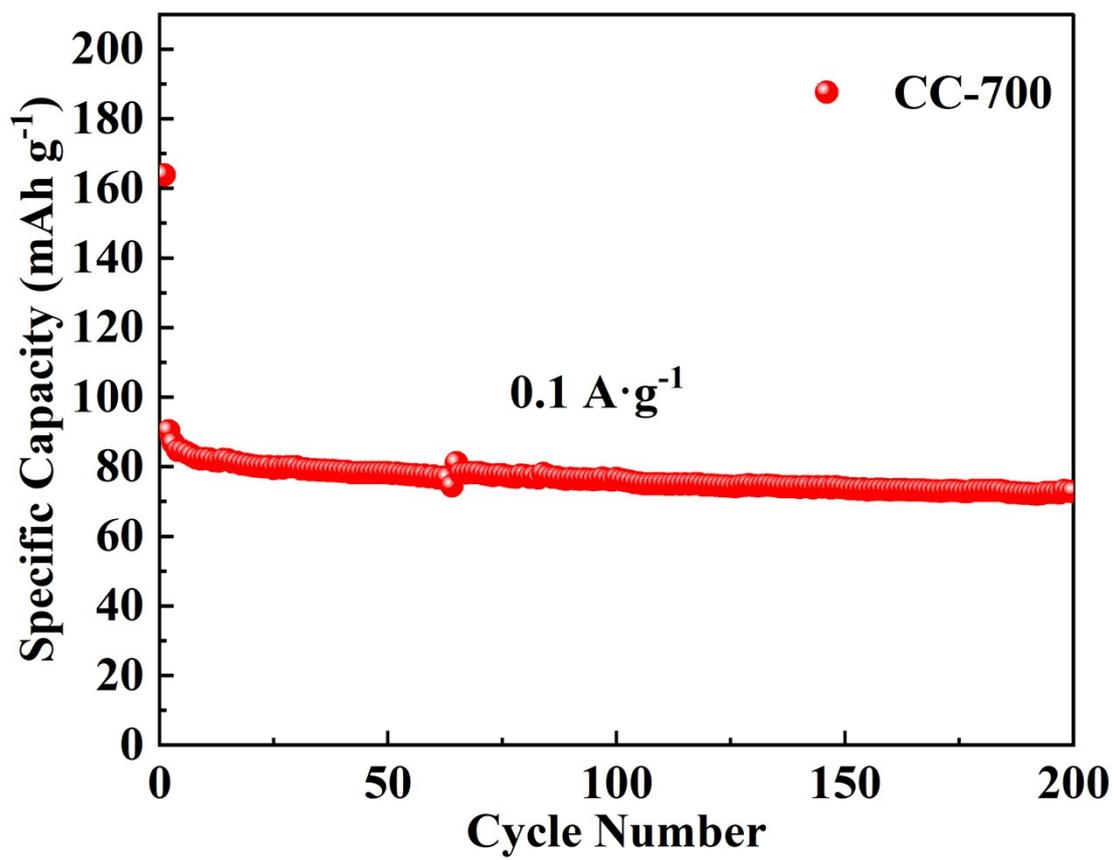


Fig. S7. Cycling performance of CC-700 at 100 mA g<sup>-1</sup>.

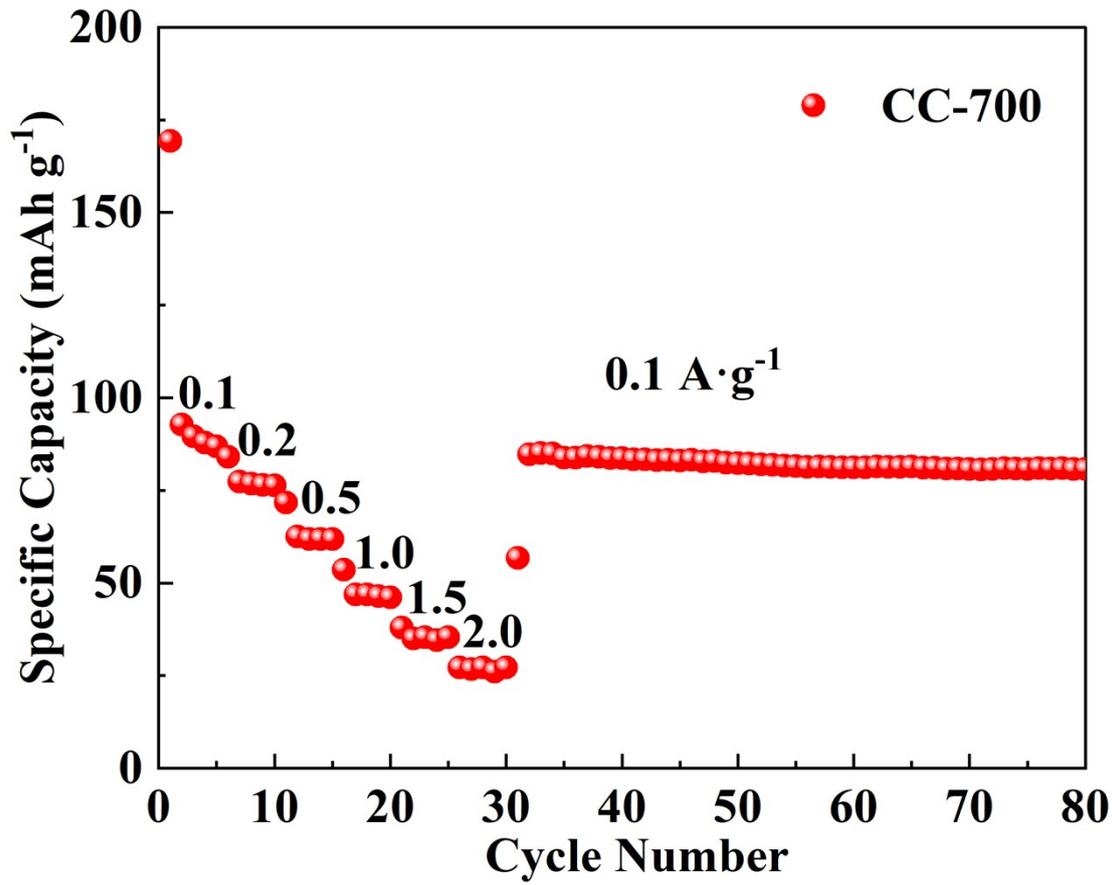
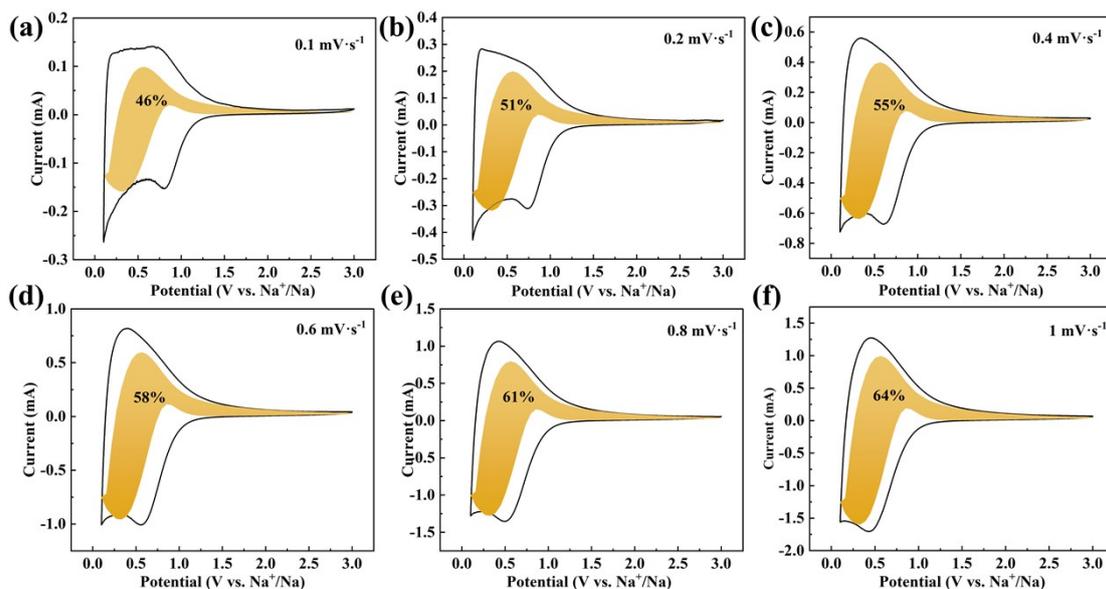
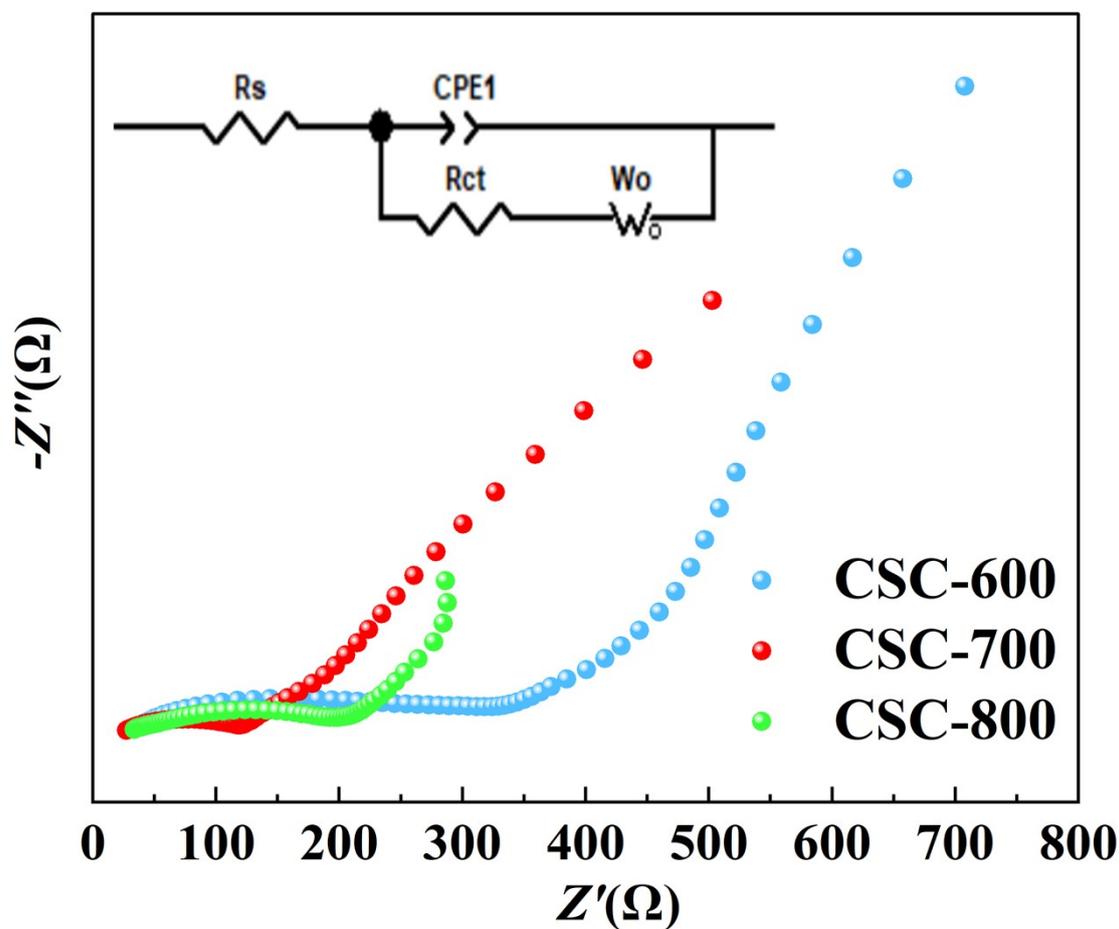


Fig. S8. Rate capability of CC-700 electrode at various current densities.



**Fig. S9.** Capacitive contributions of CSC-700 electrode at a scan rate of (a) 0.1, (b) 0.2, (c) 0.4, (d) 0.6, (e) 0.8, and (f) 1  $\text{mV s}^{-1}$ .



**Fig. S10.** The Nyquist plots of CSC-600, CSC-700, and CSC-800 electrodes.