Supporting Information

Electrospun Sb/C Fibers for A Stable and Fast Sodium Ion Battery Anode

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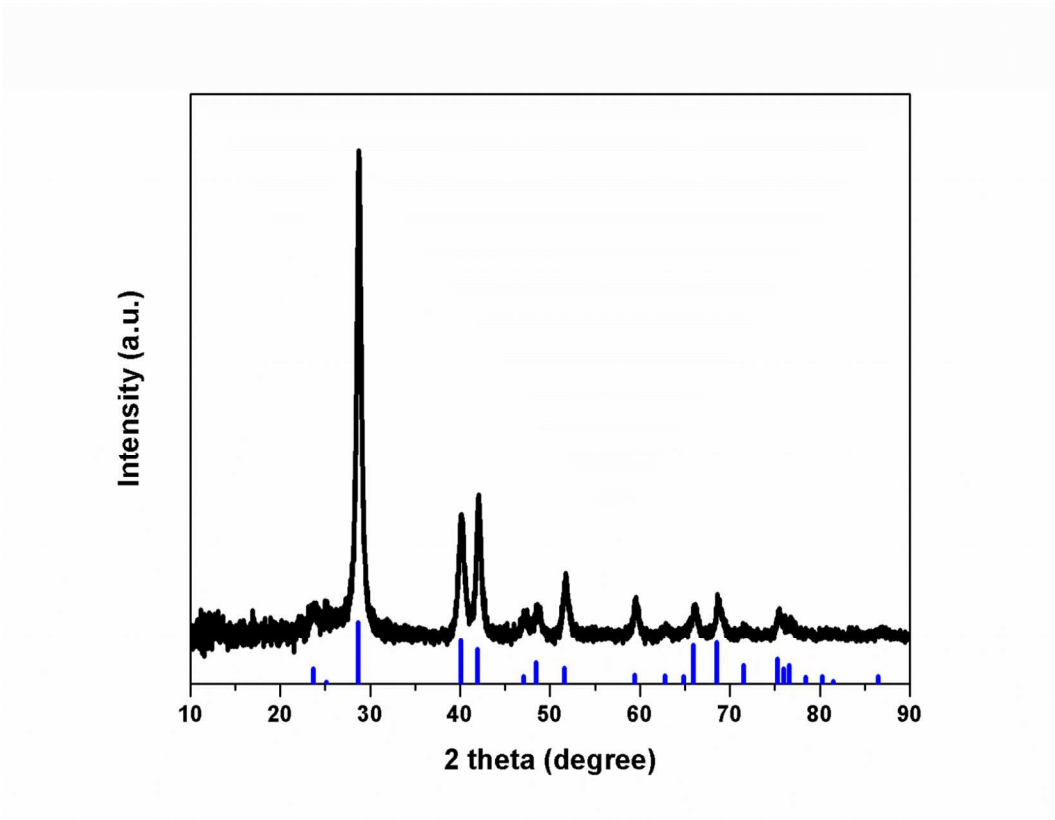


Figure S1. X-ray diffraction (XRD) pattern of the SbNP@C electrode (JCPDS card No.: 05-0562).

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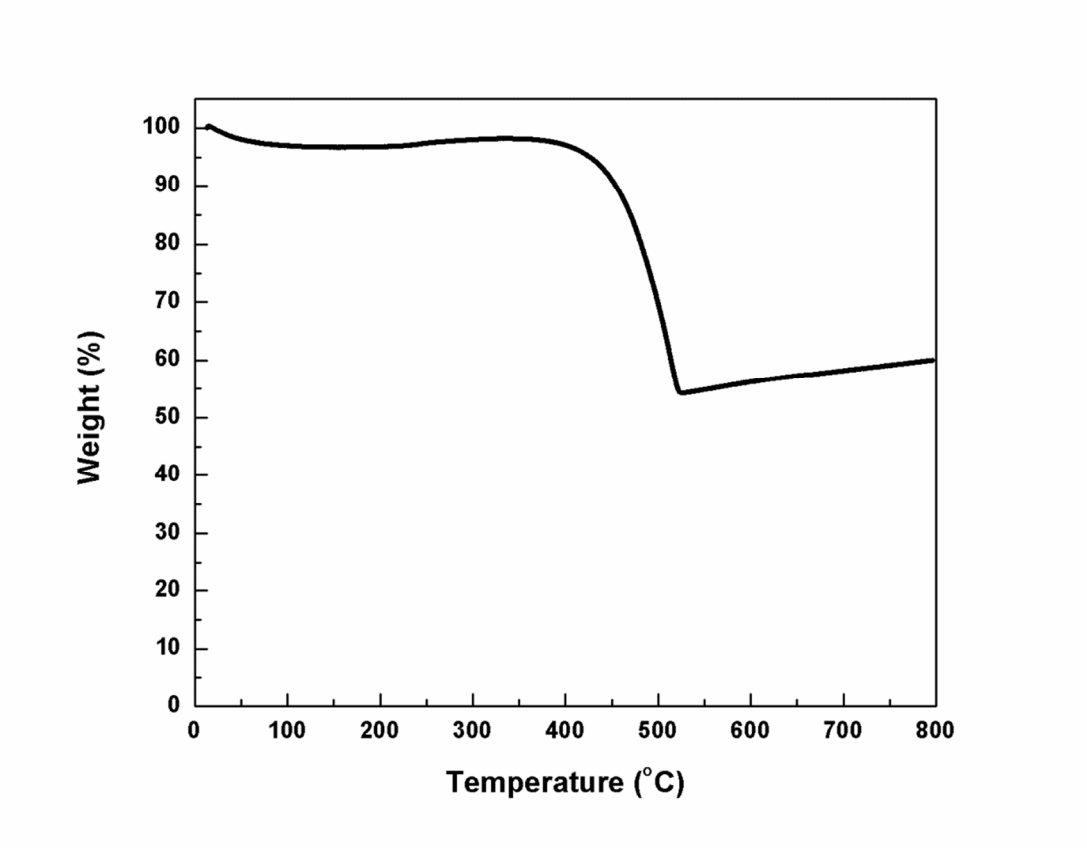


Figure S2. Thermogravimetric analysis (TGA) of the SbNP@C electrode in air.

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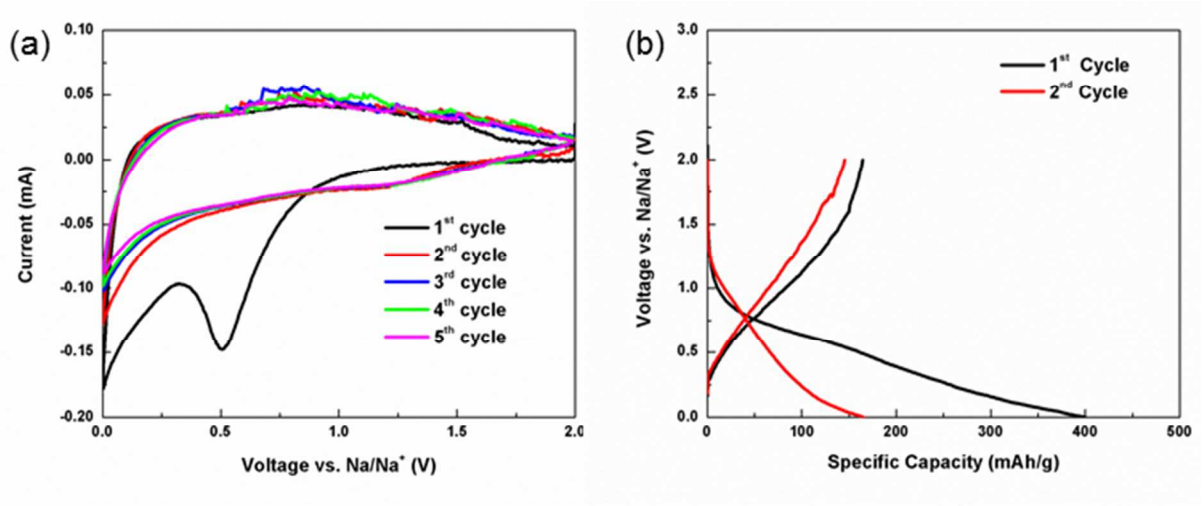


Figure S3. (a) CV curves of the carbon fiber electrode at a scan rate of 0.1 mV/s. (b) The voltage profiles for the carbon fiber electrode in the 1st and 2nd charge-discharge cycles between 0 and 2 V with a current density of 0.1 A/g. Note: the electrolyte used here was 1.0 M $NaClO_4$ in ethylene carbonate (EC):dimethyl carbonate (DMC) (1:1 by volume) liquid electrolyte.

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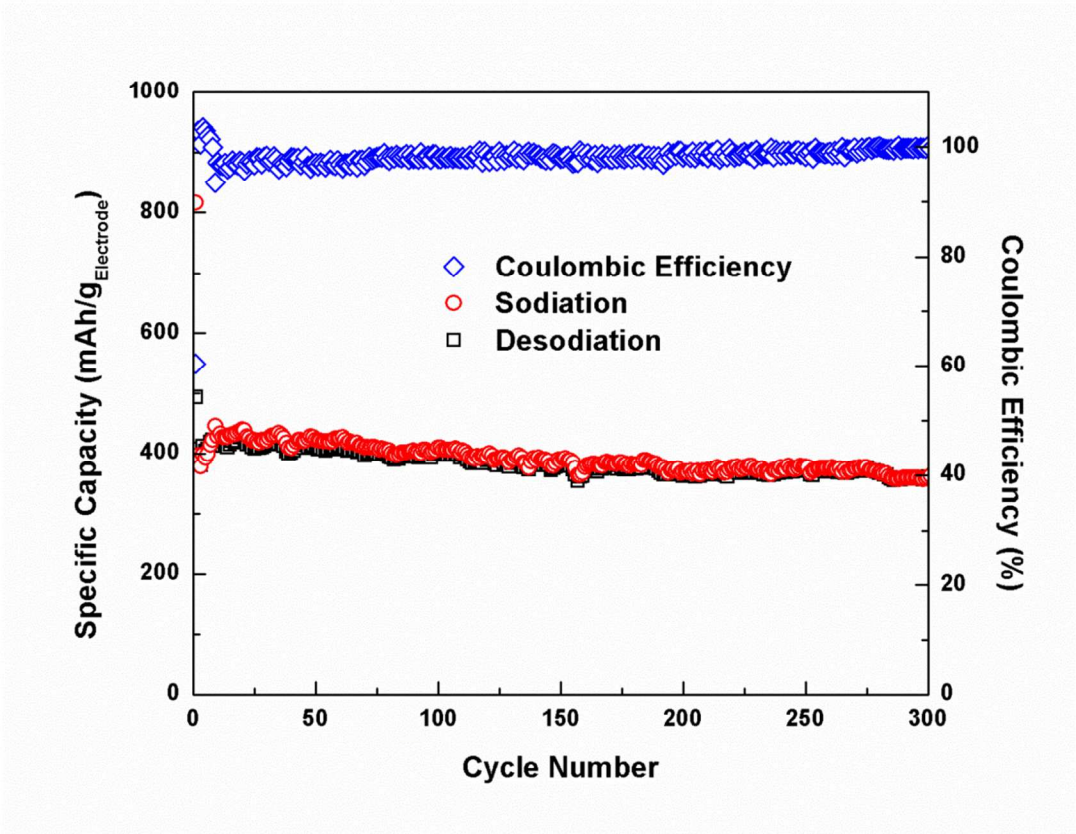


Figure S4. Cycling performance of the SbNP@C electrode at a current density of 0.1 A/g_{Sb} in 1.0 M $NaClO_4$ in ethylene carbonate (EC):dimethyl carbonate (DMC) (1:1 by volume) liquid electrolyte with 5% FEC additive.

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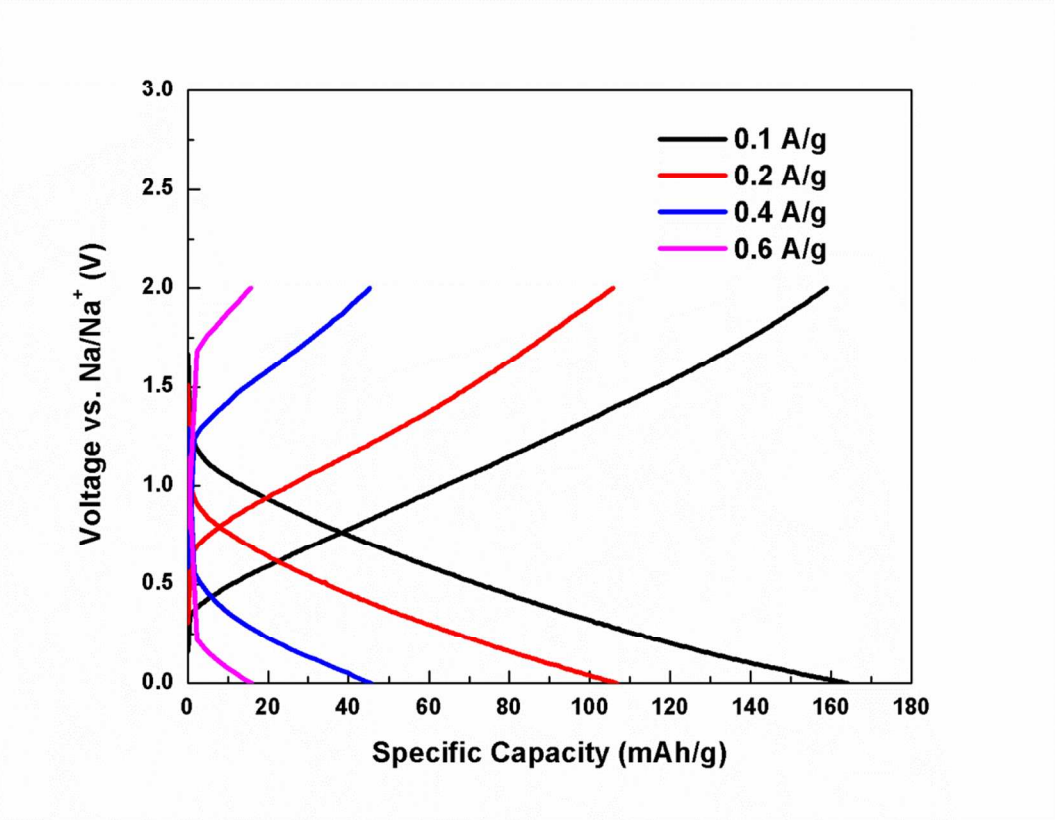


Figure S5. Charge/discharge voltage profiles of the carbon fiber electrode cycled at various current densities in 1.0 M $NaClO_4$ in ethylene carbonate (EC):dimethyl carbonate (DMC) (1:1 by volume) liquid electrolyte.

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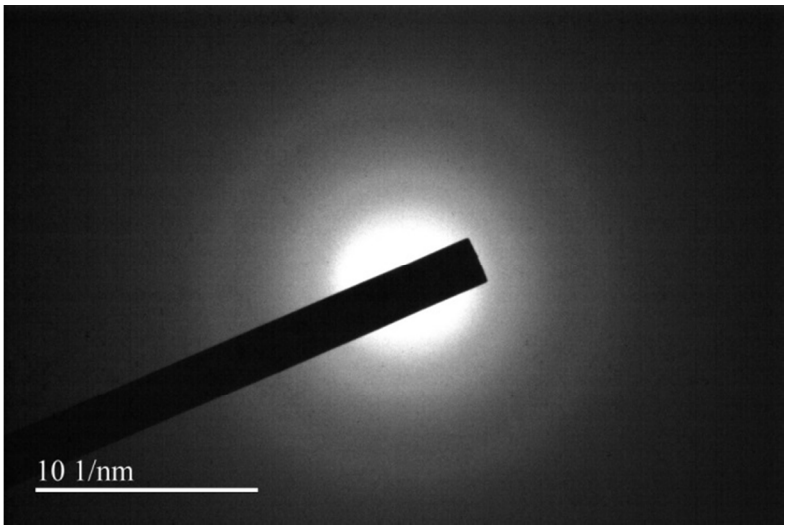


Figure S6. The electron diffraction pattern for the after-cycled fiber in the SbNP@C electrode shown in Figure 6b.

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