Supporting Information

Ultralong Layered NaCrO$_2$ Nanowires: A Competitive Wide-Temperature-operating Cathode for Extraordinary High-Rate Sodium Ion Batteries

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Figure S1. Representative digital photos of as-spun NaCr@PVP membrane
Figure S2. TG curves of NaCr@PVP precursor in air
Figure S3. Representative digital photos of (a) Peroxidation NaCrO$_x$ NWs and (c) Calcinated 1D NaCrO$_2$ NWs. The inset in panel (b) for the typical assembled Na-ion battery.
Figure S4. Low- and high-magnification FESEM images for (a, b) NaCr@PVP NWs and (c, d) the peroxidation NaCrO$_x$ NWs. The images in panels (b) and (d) show the magnified ones of the white rectangle regions in panel (a) and (c) as indicated, respectively.
Figure S5. Typical TEM image taken from the terminal of NaCrO$_2$ NWs
Figure S6. HRTEM image corresponding to the blue rectangle in panel (e) in Figure 2.
Figure S7. FESEM image for the cycled NaCrO$_2$ NWs at 25 °C after 300 cycles