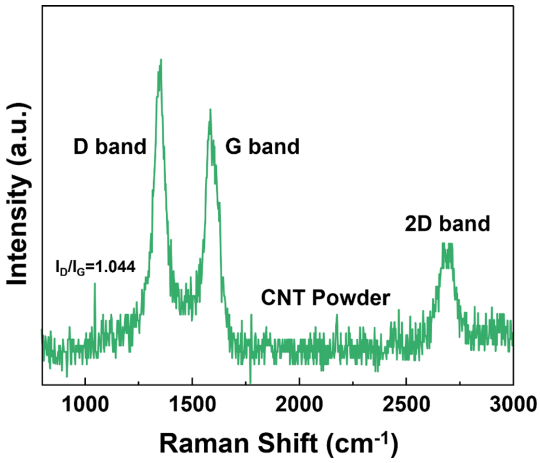

Fig. S1. Raman specta of pristine CNT powder.

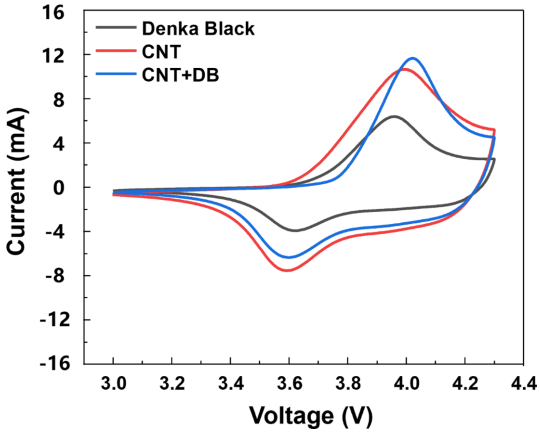

Fig. S2. CV curves of electrodes using Denka Black, CNT, and CNT+DB at scan rates 1.0 mV s^{-1} in the voltage range of 3.0–4.3 V.

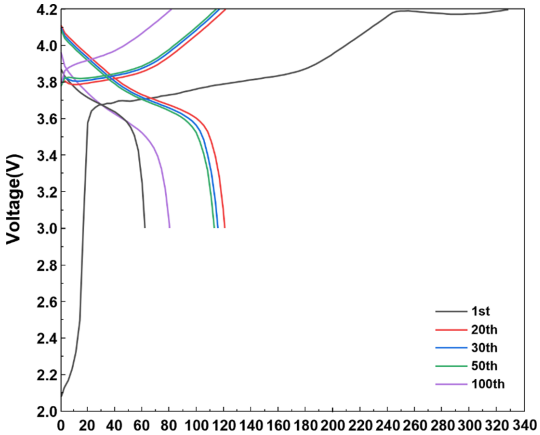

Fig. S3. The full charge–discharge voltage profile corresponding to Fig. 5d is shown over the entire voltage range, including the low-voltage region below 3.0 V, and is presented without modification for transparency.