## Supporting Information

## Three-dimensional Branched TiO<sub>2</sub> Architectures in Controllable Bloom for Advanced Lithium-ion Batteries

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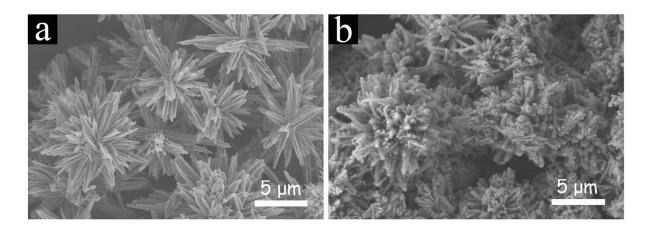
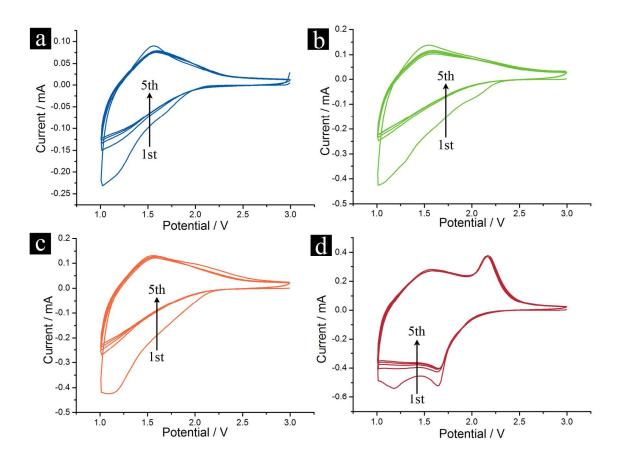
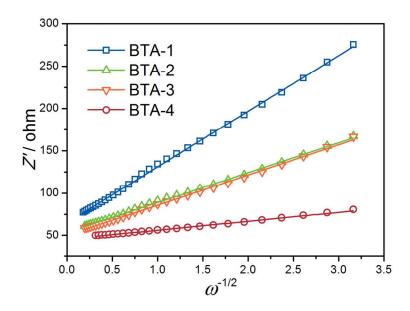


Figure S1. FE-SEM images with low magnification for (a) BTA-3 and (b) BTA-4 samples.



**Figure S2.** Cyclic voltammograms of (a) BTA-1, (b) BTA-2, (c) BTA-3, and (d) BTA-4 for the first five cycles between 1.0 and 3.0 V at a scan rate of 1 mV  $s^{-1}$ .



**Figure S3.** The linear fitting of Z' vs.  $\omega^{-1/2}$  plots for different BTA anodes.