

## **Supporting Information**

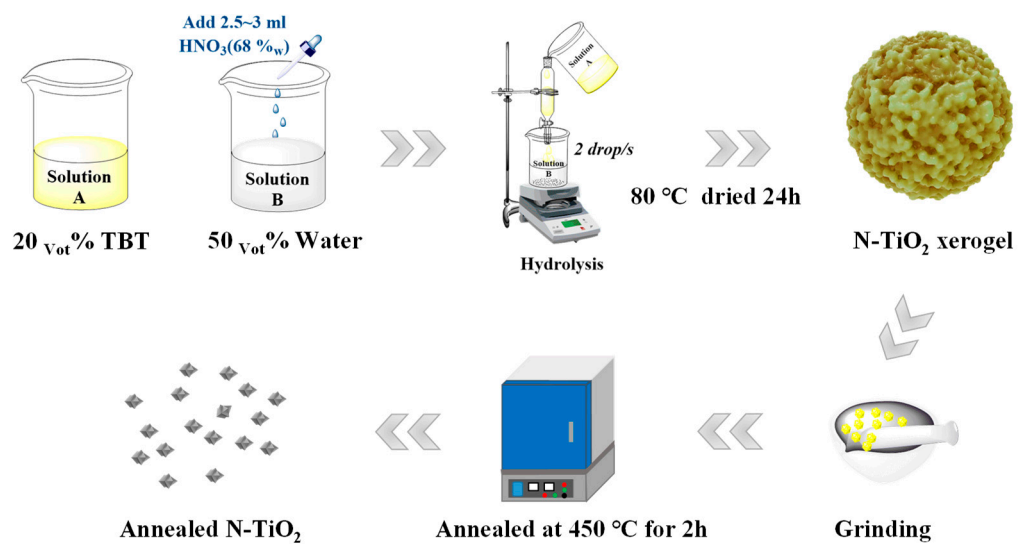
### **Enhanced Aluminum-Ion Storage Properties of N-Doped Titanium Dioxide Electrode in Aqueous Aluminum-Ion Batteries**

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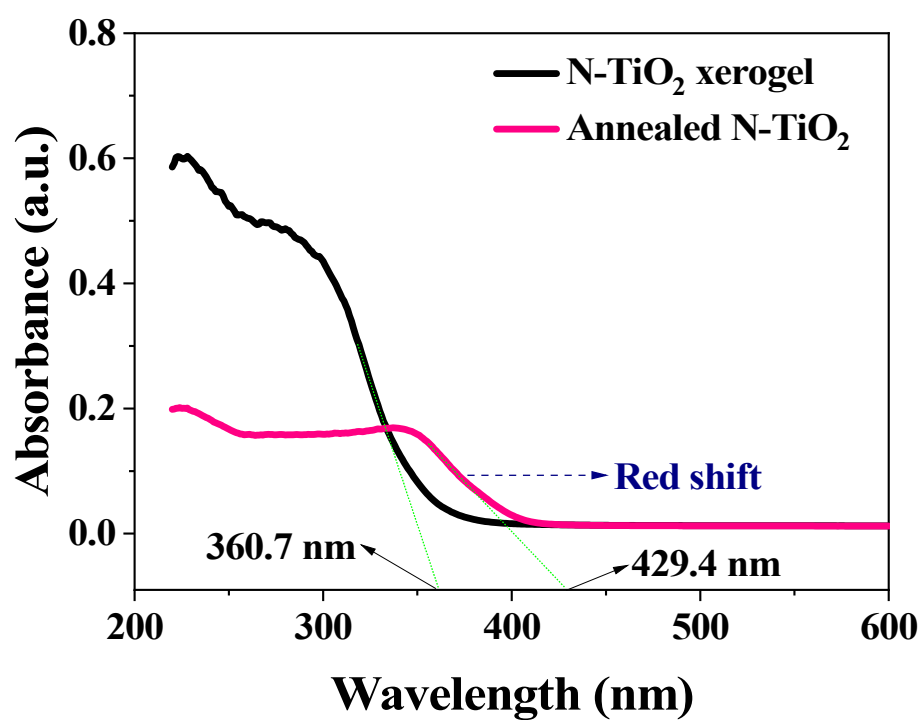
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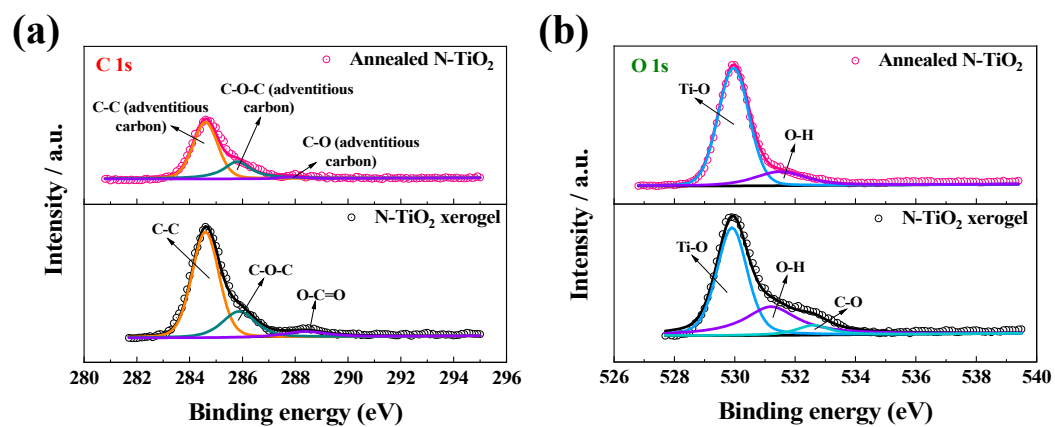
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**Figure S1.** The schematic synthesis of the N-TiO<sub>2</sub> xerogel and annealed N-TiO<sub>2</sub> samples.



**Figure S2.** UV diffuse reflectance spectra of the N-TiO<sub>2</sub> xerogel and annealed N-TiO<sub>2</sub>.



**Figure S3.** (a,b) High resolution XPS spectra of C 1s, O 1s for the N-TiO<sub>2</sub> xerogel and annealed N-TiO<sub>2</sub>.