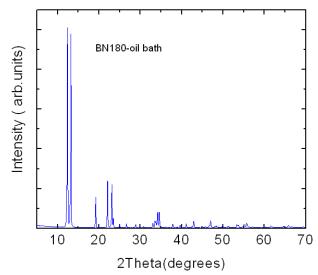
Supporting Information

for

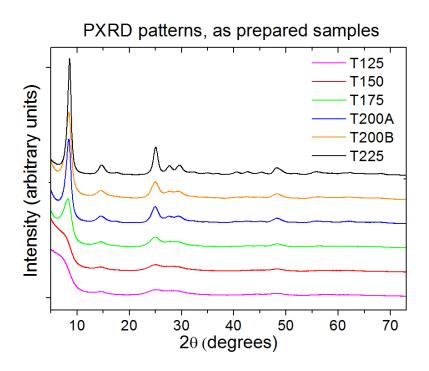
In situ monitoring of TiO₂(B)/anatase nanoparticles formation and application in Li-ion and Na-ion batteries

M. Søndergaard, a,b K. J. Dalgaard, E. D. Bøjesen, K. Wonsyld, S. Dahl, and B. B. Iversen, a*

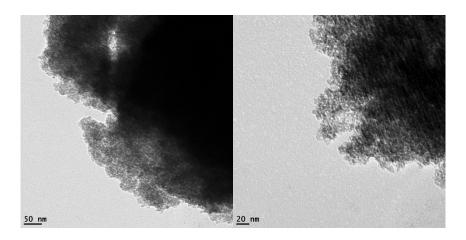
- 1. PXRD of sample without NH₄OH
- 2. Full PXRD of temperature series
- 3. Additional TEM pictures
- 4. Photo of samples
- 5. TG/DTA measurements
- 6. IR-spectra of as-prepared samples
- 7. Additional electrochemical properties of Na-cells



S.I. 1 PXRD of sample with no addition of NH₄OH – probably large crystallites of a Ti-organic compound.



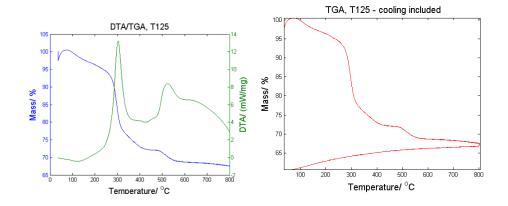
S.I.2 PXRD of temperature series including low angle reflections

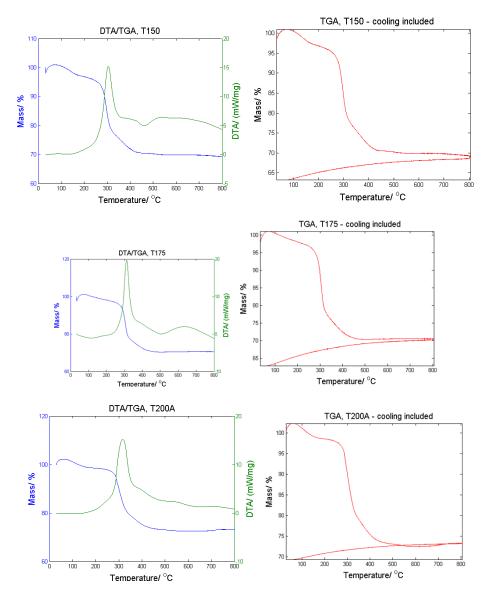


S.I.3. TEM pictures of *Left:* T225-300 and *Right:* T225-350.

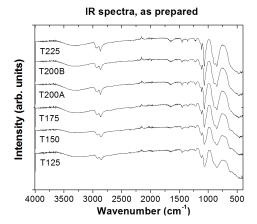


S.I.4. Photos of samples *Left:* as prepared T225 dried at 150°C. *Middle:* The T225 sample heated to 600°C in air. *Right:* the T225 sample with added NaOH heated to 800 °C in oxygen-deficient atmosphere during in situ diffraction.

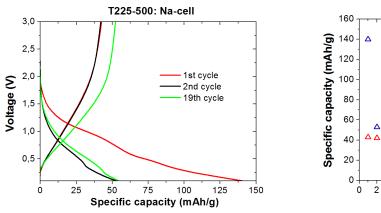


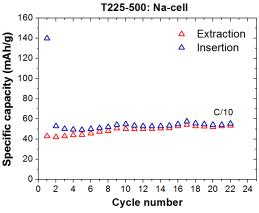


S.I.5. TG/DTA measurements on samples T-125 to T-200.



S.I.6. IR-spectra of as-prepared samples





S.I. 7 Electrochemical performance of Na-cells with the working electrode made from the T225-500 sample.