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**Diffusional and electrochemical investigation of combustion synthesized BaLi2Ti6O14 titanate anode for rechargeable batteries**

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Figure S1: Solution combustion synthesis of BaLi2Ti6O14 by varying the content of lithium precursor (precalcination at 300 °C and annealing at 900 °C for 2 h) and glycine as fuel. The impurity phases have been indicated.

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Figure S2. Nitrogen adsorption – desorption isotherm at 77 K. Inset shows the pore volume distribution.

**Ex situ XRD and Raman analyses**

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Ex situ (left) Raman and (right) XRD patterns of BaLi2+xTi6O14 electrode samples collected at different states of charge as indicated in the centre voltage profile. Overall, no significant changes were noticed during electrochemical cycling.