

# Li Air XRD Paper – Supplementary Information

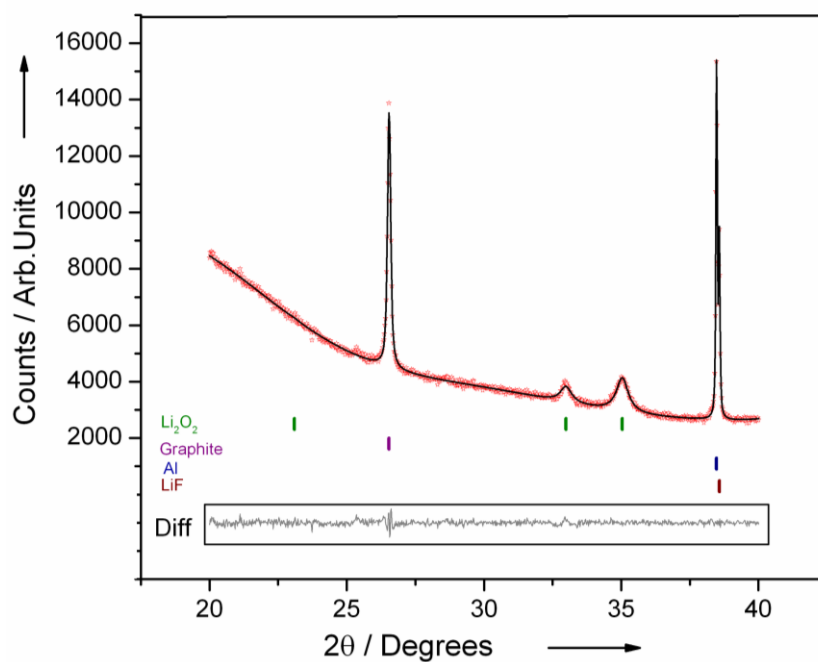


Figure S1 Final Rietveld refinement plot of the *ex situ* diffraction pattern of a plain carbon laminate after full discharge to 2.2V at a rate of 0.05mAh. The graph shows observed (red dots), calculated (black line) and difference (grey line) plots. Bragg peak positions for  $\text{Li}_2\text{O}_2$ , Graphite and Al (from current collector) and LiF (from binder) are indicated

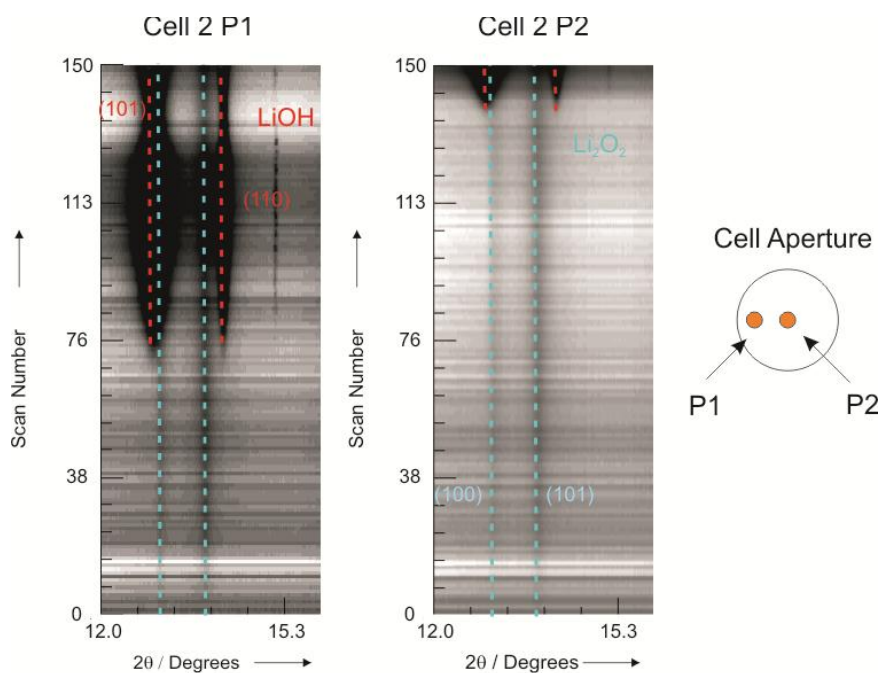


Figure S2 Surface plots from two positions across the cell 2 aperture showing the earlier onset of LiOH growth closer to the aperture edge.