



Figure S1. X-ray diffraction patterns for platinum wire and iridium wire annealed in forming gas and Li_2CO_3 melt oxidized for 30 minutes and 5 hours, respectively; followed by 48 hour treatment with $\sim 3\text{M}$ HNO_3 . XRD pattern of empty 0.8 mm capillary is also provided for comparison. Tick marks indicate the Bragg reflection positions for Li_2CO_3 (green) and Li_2MO_3 (blue), while asterisks indicate Bragg reflection positions for Pt.