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Supporting information



Figure S1. SEM-EDS image with elemental mapping of O and Co in the Co dot array directly deposited on Pt substrate after heating at 500°C for 10h in a molten LiNO.



Figure S2. Changes in the surface and cross-sectional SEM images of the  $LiCoO_2$  dot arrays the Co dot array directly deposited on Pt substrate: (a, c) as prepared arrays at 500oC for 10h in molten  $LiNO_3$ , (b, d) after annealing at 700°C for 1h.



Figure S3. First 3 charge and discharge curves of the 7  $\mu m\text{-}$  LiCoO2 dot array electrode.