Electronic Supplementary Information

Synthesis of different CuO nanostructures from Cu(OH)$_2$ nanorods through changing drying medium for lithium-ion battery anodes

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Fig. S1 (a) SEM and (b) TEM images of as-prepared CuO nanoleaves obtained at 200 °C (sample A-200).

Fig. S2 Nitrogen adsorption-desorption isotherm curve and BJH pore size distribution plot (inset) of porous CuO nanoleaves (sample A-400).
Fig. S3 TGA curve of Cu(OH)$_2$ precursors (sample B).

Fig. S4 (a) SEM and (b, c) TEM images of as-prepared CuO nanorods obtained at 200 °C (sample B-200).
Fig. S5 (a, c) Cycling performance at a current rate of 0.1 C and (b, d) rate capacity of the as prepared CuO samples: (a, b) sample A-200; (c, d) sample B-200. (1 C = 674 mAh g⁻¹)