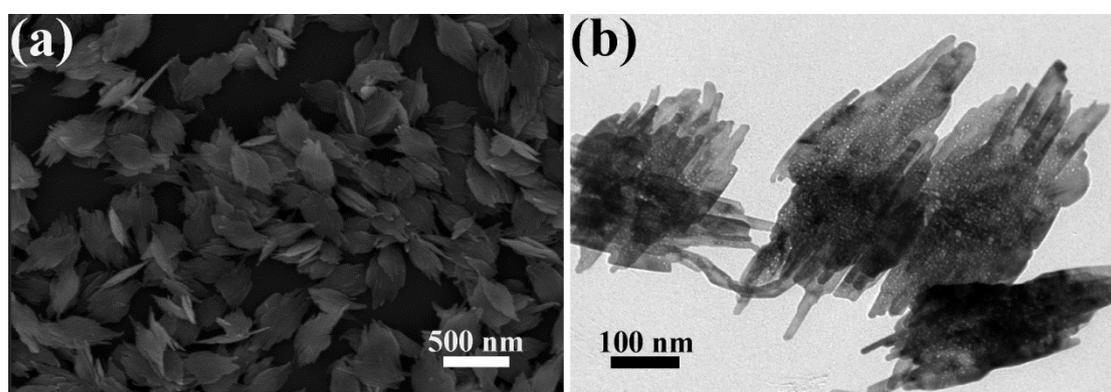


## Electronic Supplementary Information

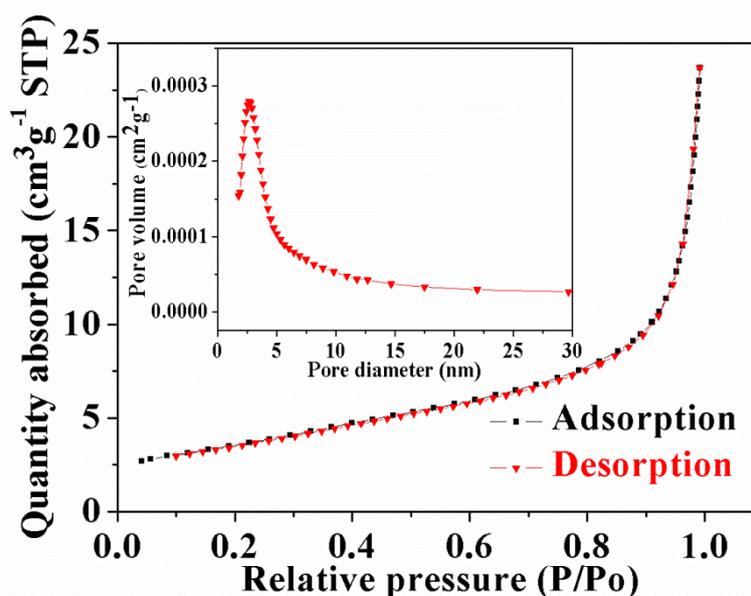
### Synthesis of different CuO nanostructures from Cu(OH)<sub>2</sub> nanorods through changing drying medium for lithium-ion battery anodes

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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).

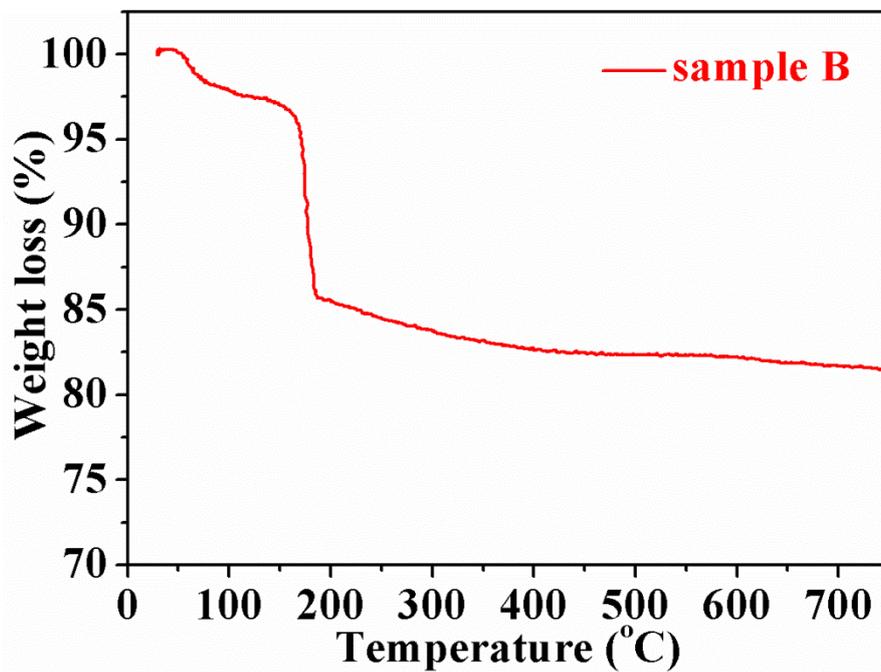


Fig. S3 TGA curve of  $\text{Cu}(\text{OH})_2$  precursors (sample B).

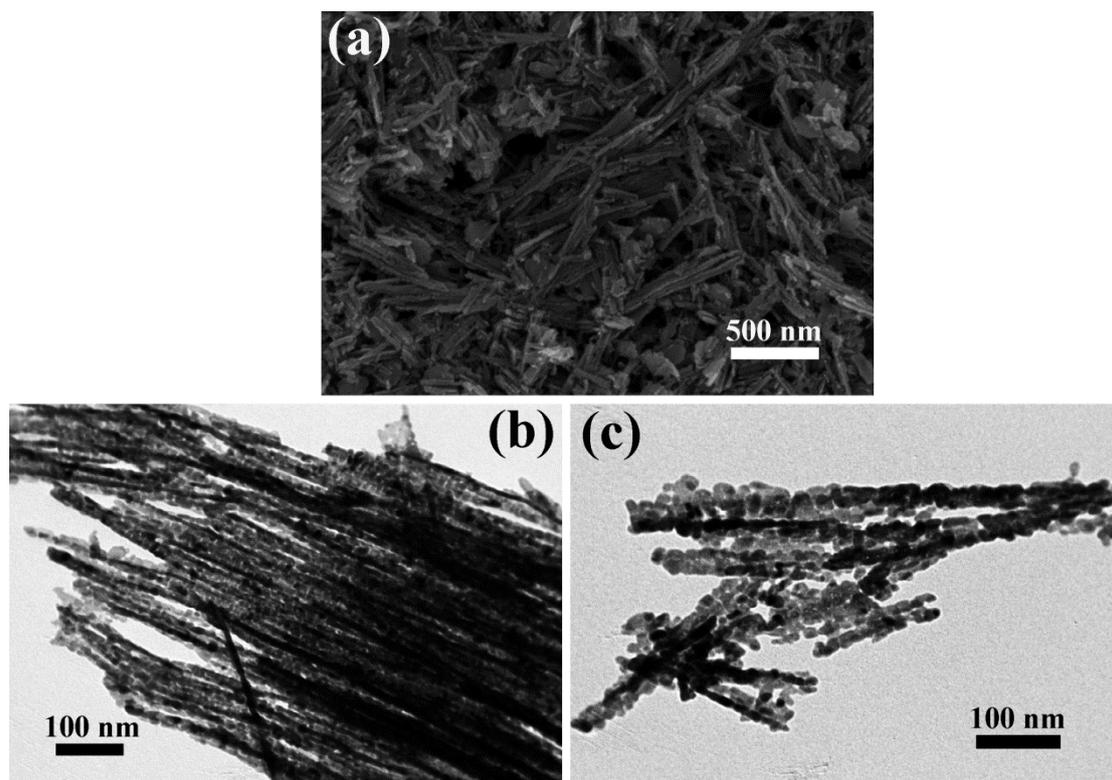


Fig. S4 (a) SEM and (b, c) TEM images of as-prepared  $\text{CuO}$  nanorods obtained at  $200\text{ }^\circ\text{C}$  (sample B-200).

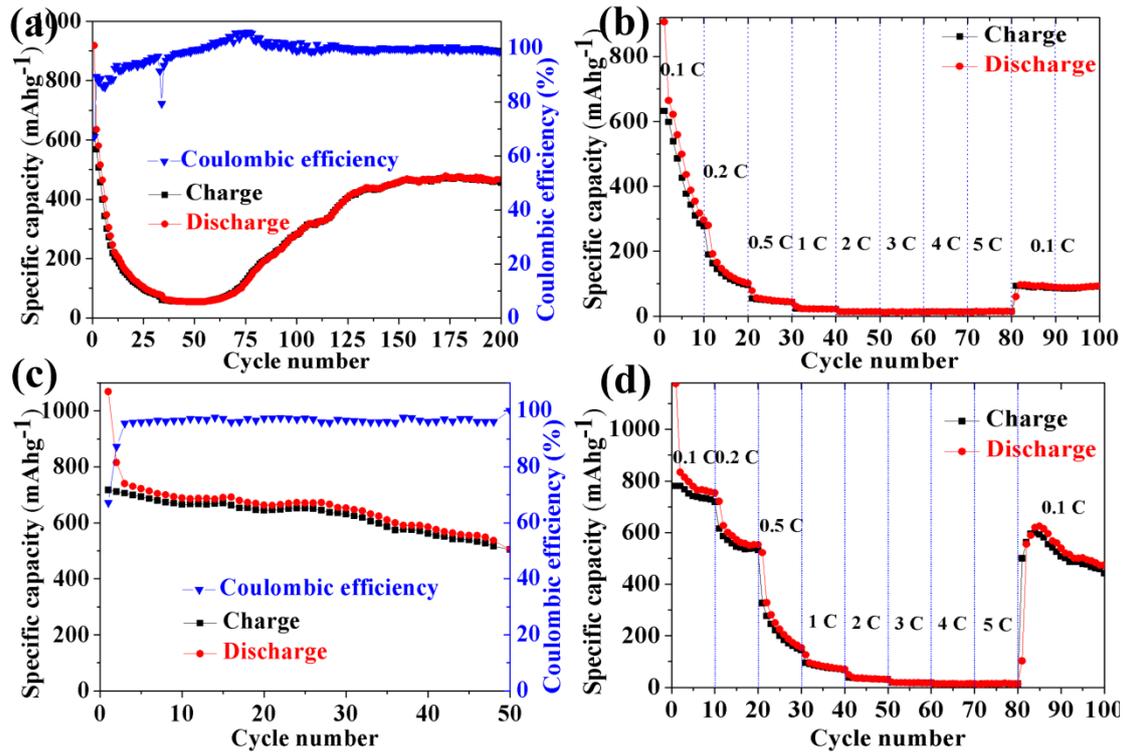


Fig. S5 (a, c) Cycling performance at a current rate of 0.1 C and (b, d) rate capacity of the as prepared CuO samples: (a, b) sample A-200; (c, d) sample B-200. (1 C =  $674 \text{ mAh g}^{-1}$ )