

Electronic Supplementary Information for

Facile fabrication of CuO 1D pine-needle-like arrays for super-rate lithium storage

Xin Chen,^a Naiqing Zhang,^{b,c} and Kening Sun^{*,c,b}

^a Department of Chemistry, Harbin Institute of Technology, Harbin, 150001, PR China.

^b State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology, Harbin, 150001, PR China.

^c Academy of Fundamental and Interdisciplinary Sciences, Harbin Institute of Technology, Harbin, 150001, PR China

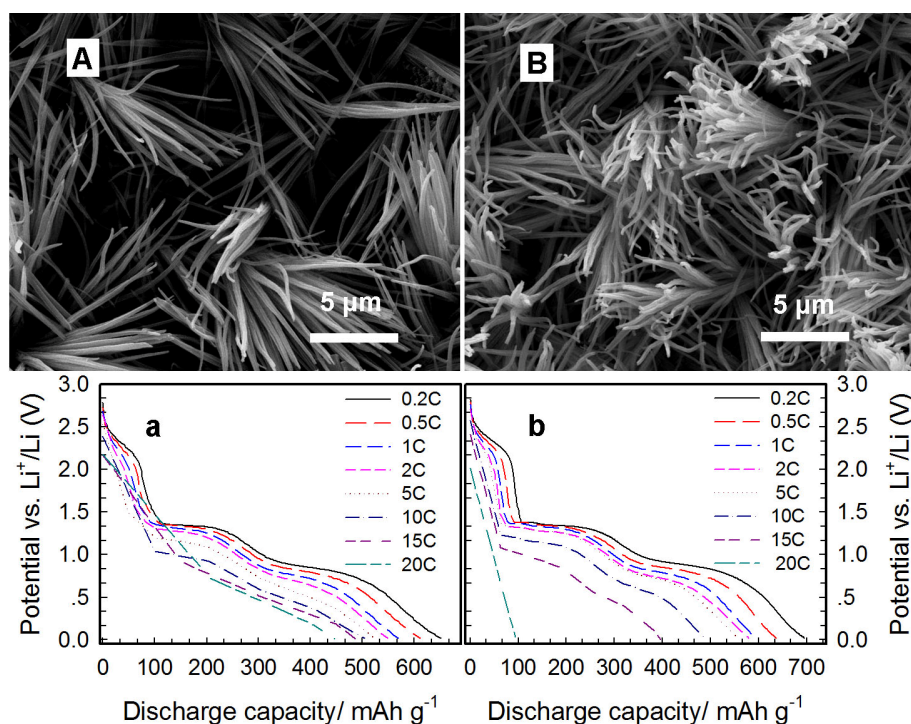


Fig. S1 SEM images (A, B) and rate discharge-charge plots (a, b) of CuO PNL arrays under the current density of $2.5 \text{ mA} \cdot \text{cm}^{-2}$ for 8, 20 min in 2 M KOH solutions, respectively.

* To whom correspondence should be addressed. E-mail: kening.sun@yahoo.com.cn

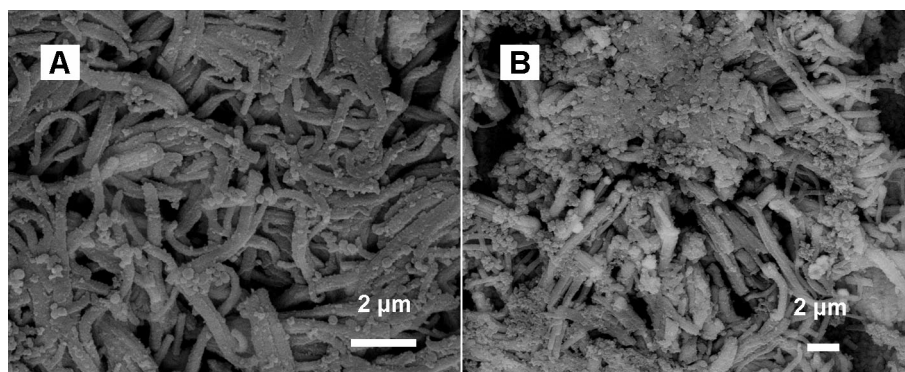


Fig. S2 SEM images (A, B) of CuO NNs arrays and DPNs after 90 cycles under the various rates from 0.2C to 20C to 0.2C.