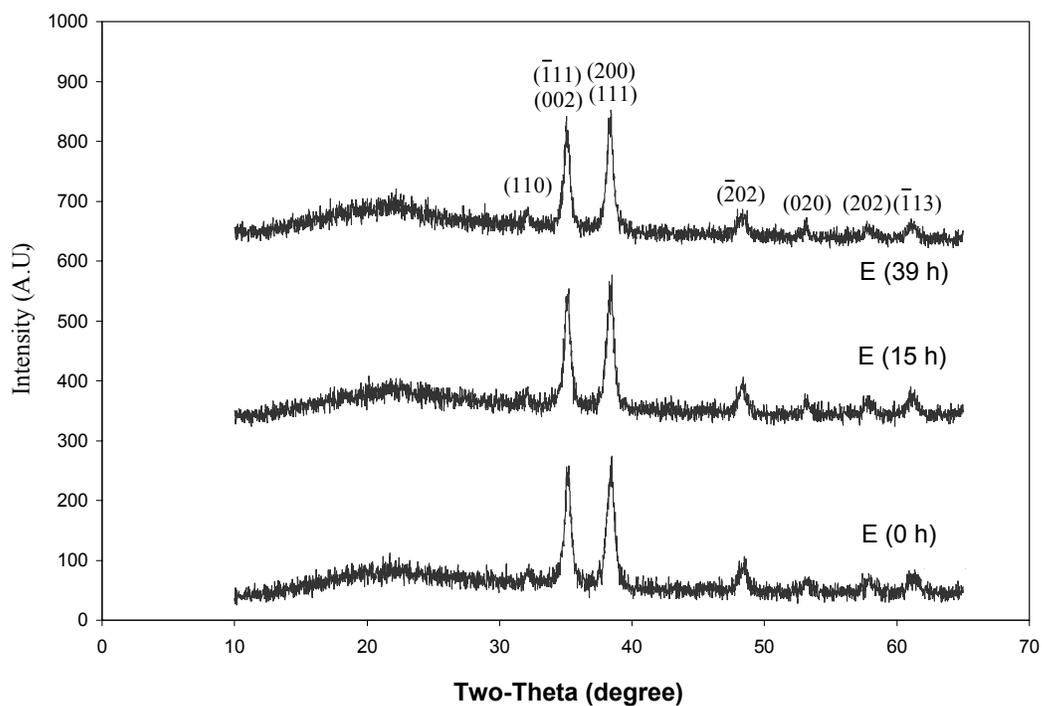


## Controlled Synthesis and Self-Assembly of Single-Crystalline CuO Nanorods and Nanoribbons

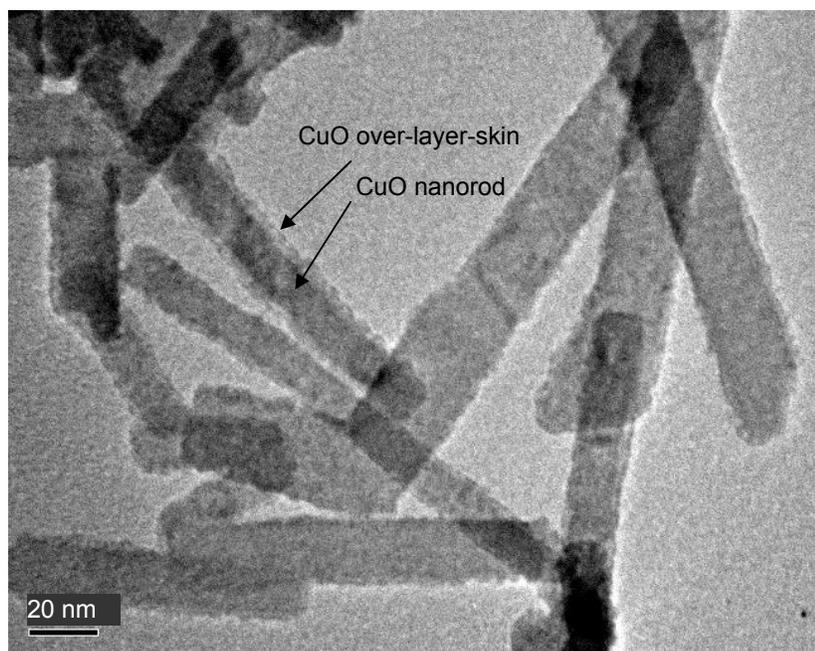
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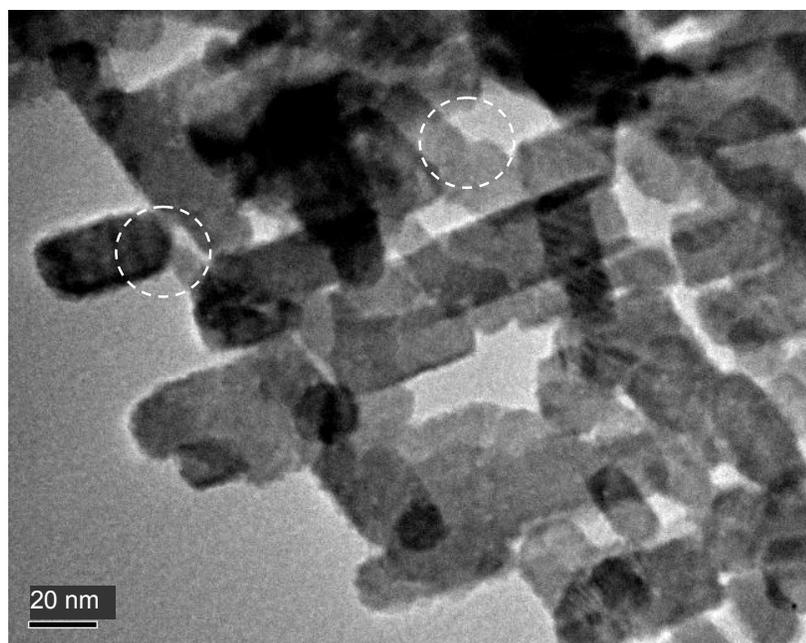
**SI-1.** XRD patterns of the sample series of E with and without aging treatments; the hump at  $2\theta = 22\text{--}23^\circ$  is due to the diffraction of glass sample holder.



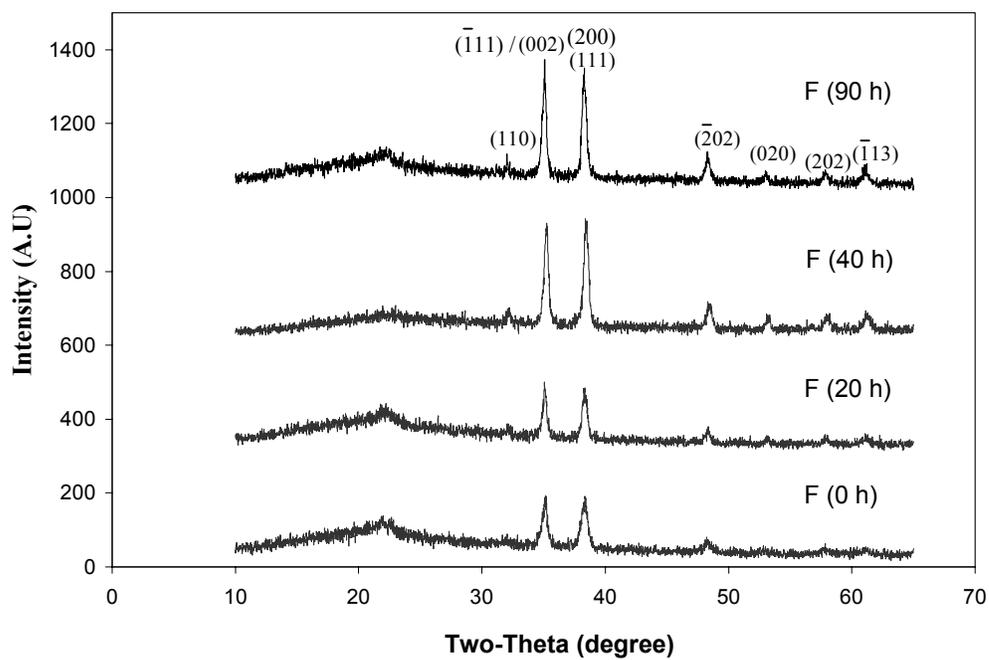
**SI-2.** The following TEM image indicates the overgrowth of CuO on the existing nanorods after a prolonged aging of 39 h in the experiment series of E (XRD pattern in **SI-1**).



**SI-3.** The following TEM image gives a detailed view on the  $\{110\}$  plane-attachment among CuO nanorods in the netted structure (15 h aging, XRD pattern in **SI-1**; also see Figures 5 and 6 in the main text), as indicated in circled areas.



**SI-4.** Representative XRD patterns of the sample series of F; the hump at  $2\theta = 22\text{--}23^\circ$  is due to the diffraction of glass sample holder.



**SI-5.** The following TEM image shows a sheet-like CuO nanostructure with “wrinkles” from the experiment F (40 h aging, XRD pattern in **SI-4**); refer to Figure 3 (inset) for orientation.

