

## Supporting figures captions

**Fig. S1.** UV-vis absorbance spectra for ZnO thin film and nanorods.

**Fig. S2.** Low (a) and high (b) magnification FE-SEM images of the CuO/ZnO-NR electrode after stability test. Low (c) and high (d) magnification FE-SEM images showing some mechanical damages on the CuO/ZnO-NR electrode

**Fig. S3.** XRD pattern of the Cu/ZnO-NR electrode after stability test. .

### Supporting Figures:

#### Figure S1

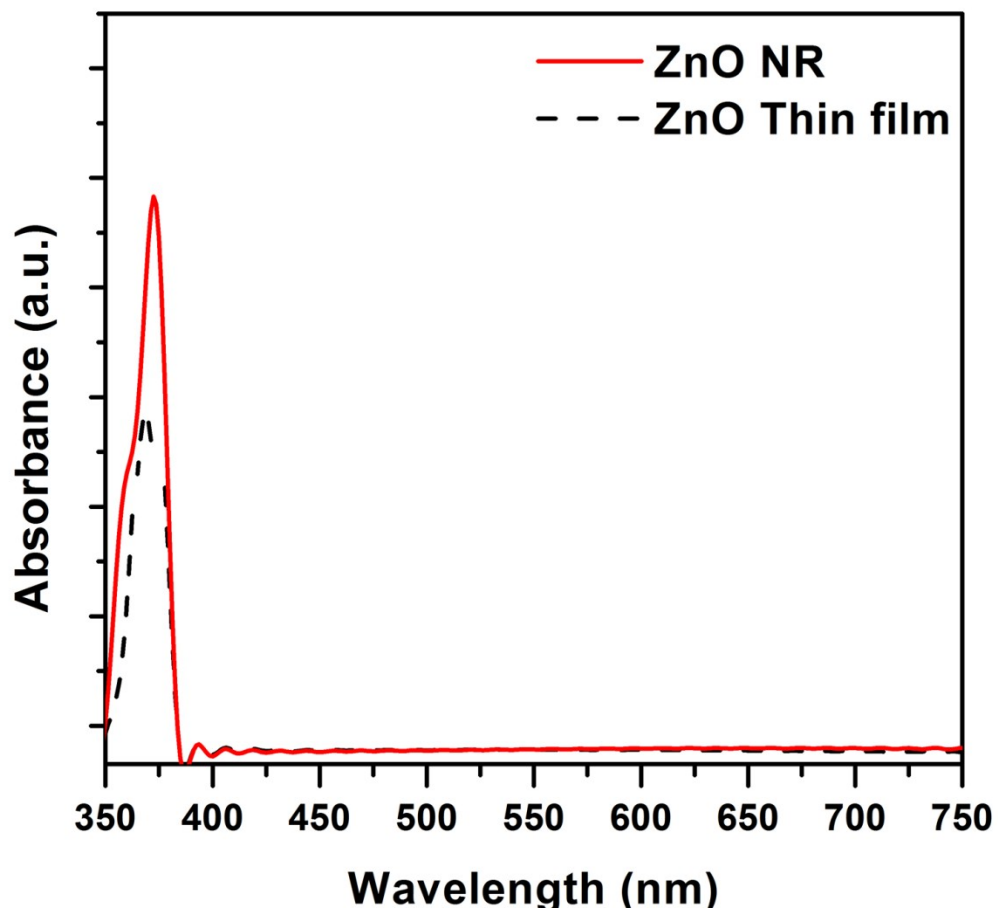


Figure S2

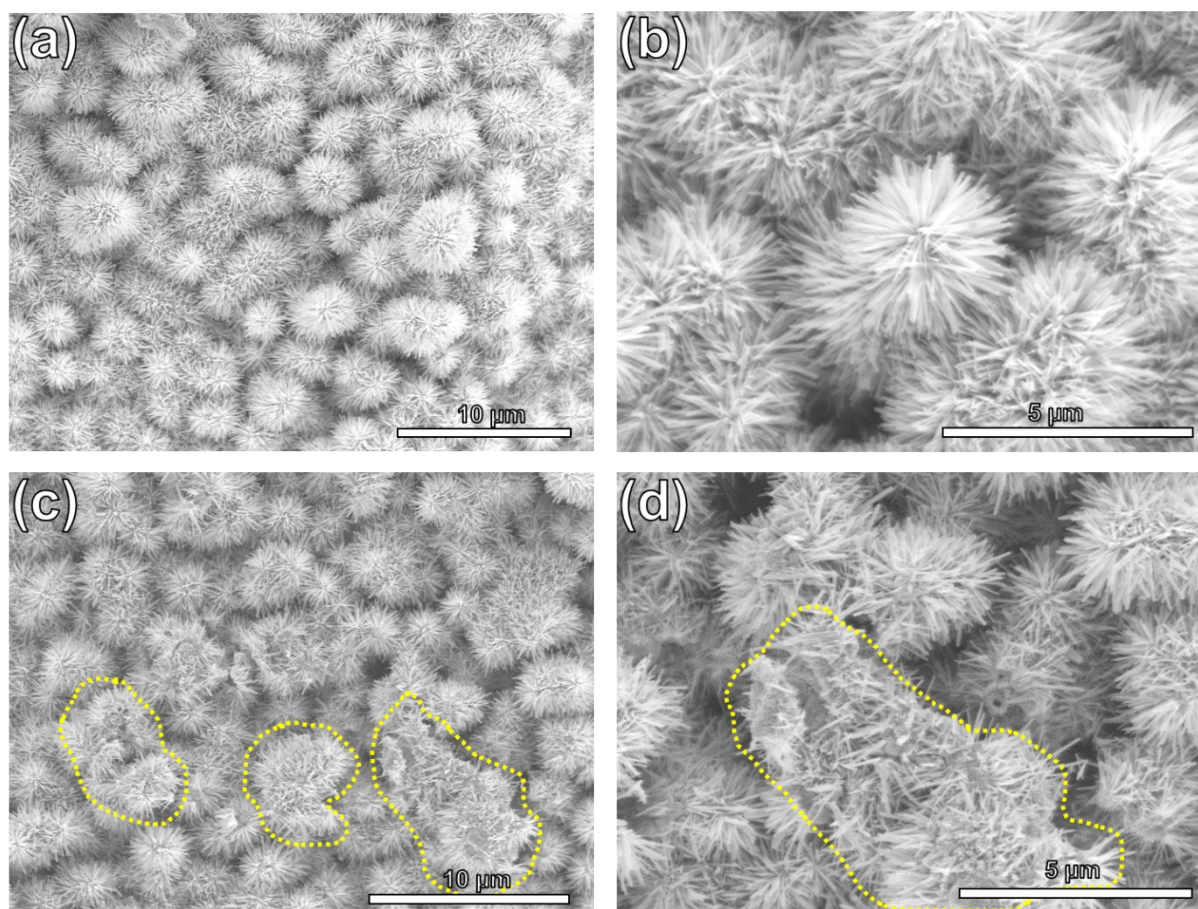


Figure S3

