

## Supporting

### Transparent Conducting Oxide-Free and Pt-Free Flexible Dye-sensitized Solar Cells Employing CuS-Nanosheet Networks as Counter Electrodes

Xiaojia Zhang<sup>a</sup>, Wenxi Guo<sup>a,b,\*</sup>, Caofeng Pan<sup>a\*</sup>

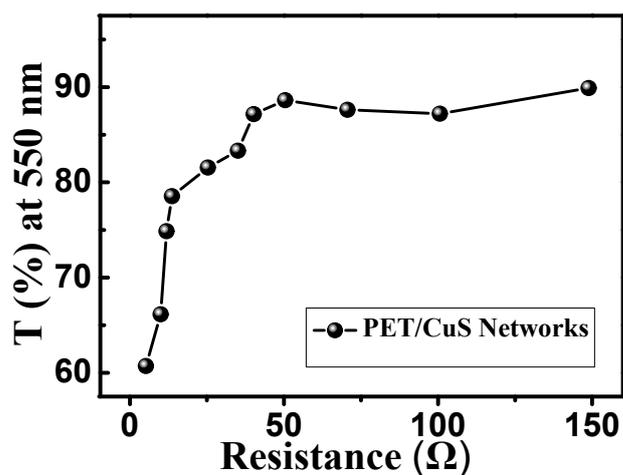


Figure S1. Transmittances of CuS NS network electrodes versus sheet resistances performance.

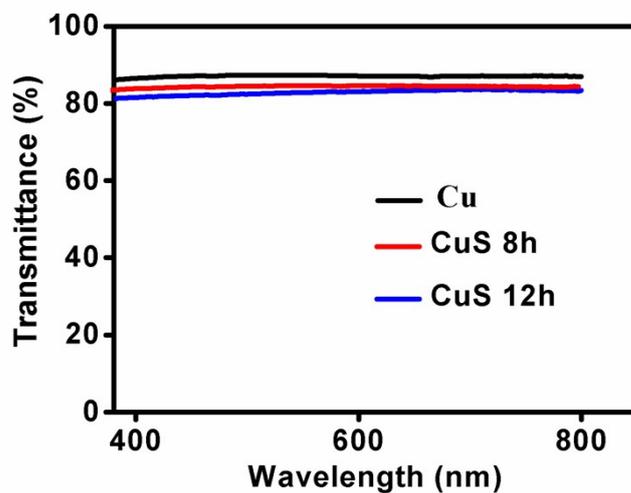


Figure S2. Transmittances of Cu networks electrode with different sulphur treatment time.

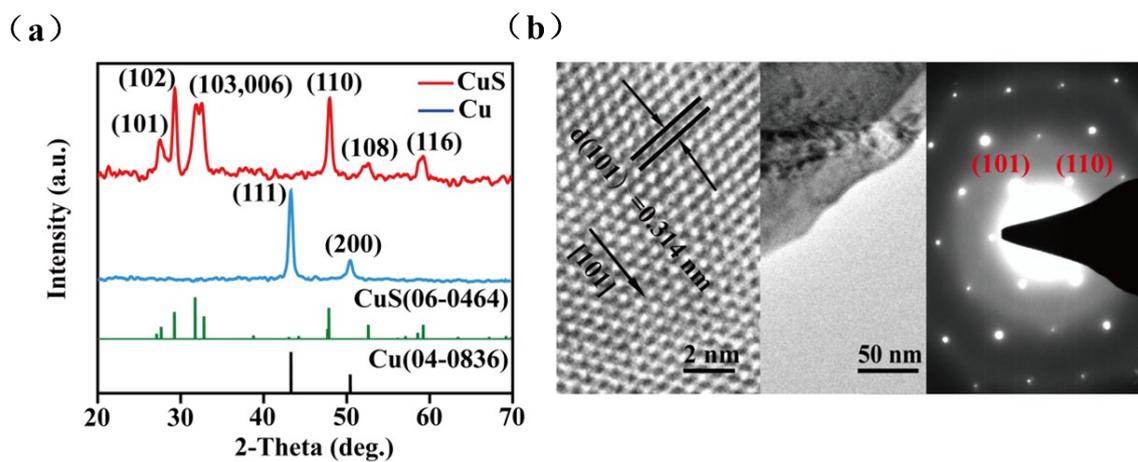


Figure S3. (a) XRD patterns of Cu and CuS NS networks; (b) TEM, HRTEM, and SADE images of CuS NS networks electrodes.

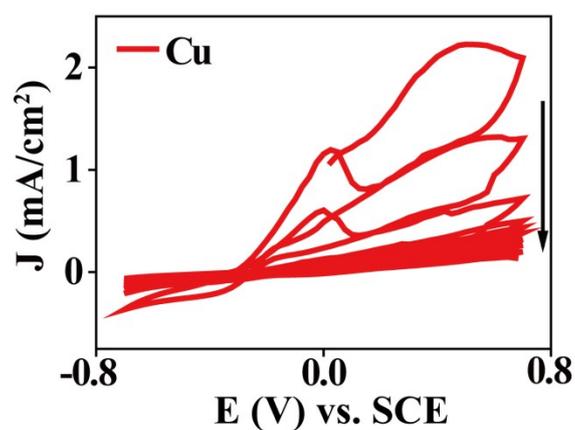


Figure S4. CV curves of Cu network electrode in the electrolyte for 50 cycles scan at 50V.

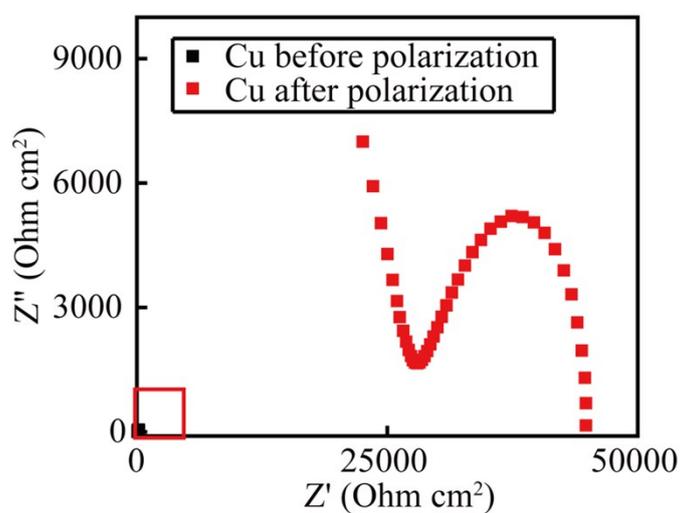
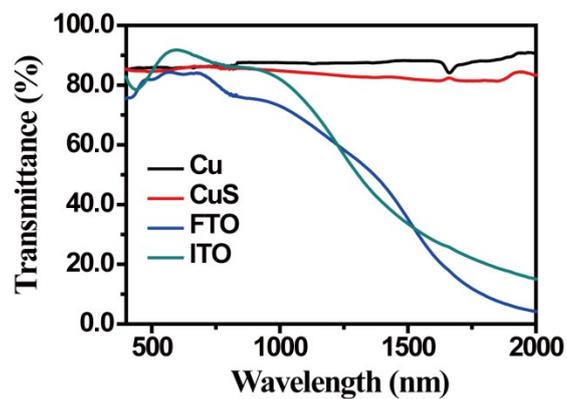
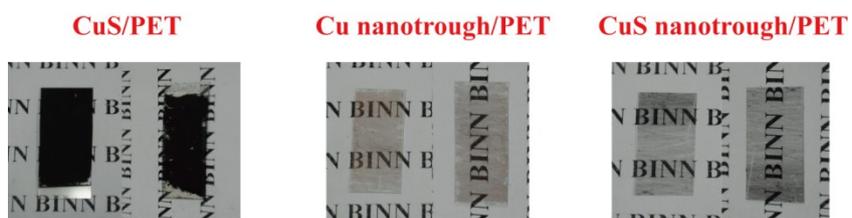


Figure S5. Plots of EIS of Cu network electrode before and after polarization.



**Figure S6.** Transmittance of the Cu and CuS NS network/PET electrode, ITO/PET and FTO/PET electrodes.



**Figure S7.** Photographs before (left side) and after (right side) bend test of the CuS/PET, Cu/PET and CuS NS/PET electrode.