

Fig. (S-1) Schematic of counter electrode fabrication and dye sensitized solar cell.

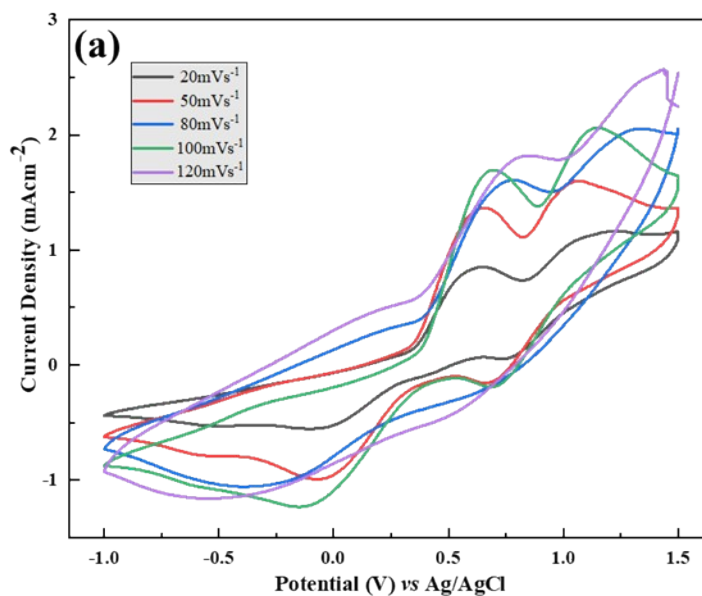


Fig. (S-2) Cyclic Voltammetry curves of the CuInS₂/PEDOT:PSS counter electrode at 20-120 mVs⁻¹ scan rate from -1.0 to 1.5 V in electrolyte solution consists of 1mM I₂, 10 mM LiI, and 100

mM LiClO₄ in acetonitrile with Ag/AgCl and Platinum wire as a working, reference and counter electrode.

FTIR spectrum in the region between 650 and 2500 cm⁻¹ was performed to investigate the surface functionality of the CuInS₂ NPs. The peak vibrations at 1184 cm⁻¹ predict the presence of the epoxy group. Further, the peaks vibrations found at 1108 cm⁻¹ are also noticeable at higher indicate S-O stretching.

