



Supporting Information for

Article

Structural and Electrochemical Analysis of CIGS: Cr Crystal-line Nanopowders and Thin Films Deposited onto ITO Substrates

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Figure 1. Spin-coating process (feeding of dissolved metal solution onto ITO substrate using micropipette).

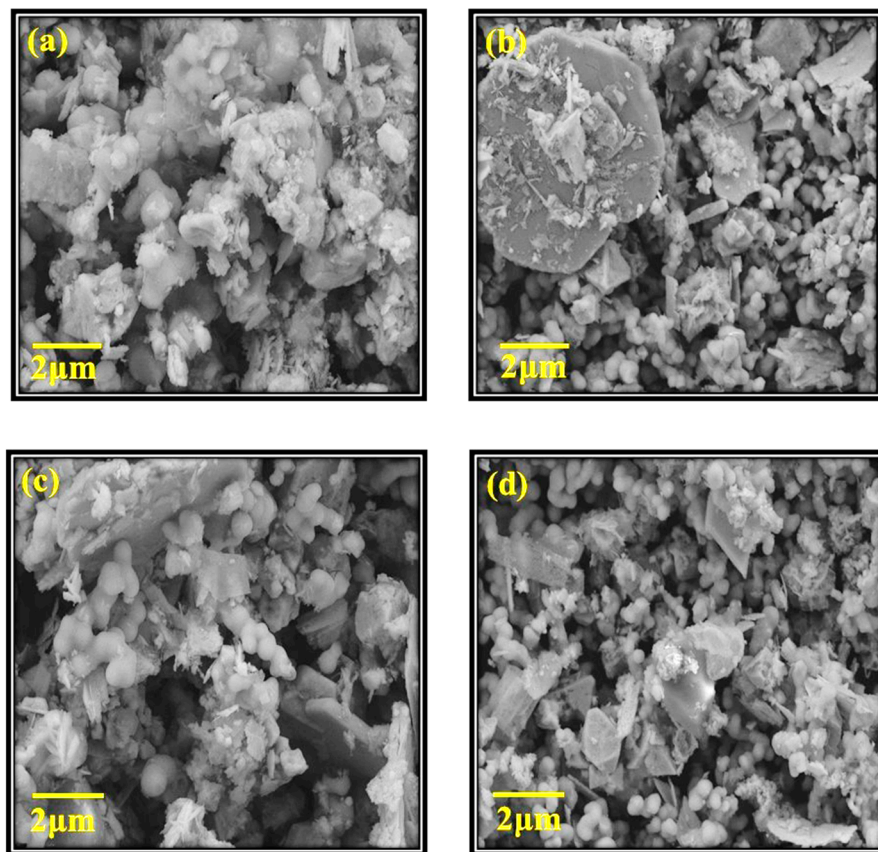


Figure S2. FE-SEM images for (a) $\text{CuIn}_{0.4}\text{Ga}_{0.6}\text{Se}_2$, (b) $\text{CuIn}_{0.4}\text{Cr}_{0.1}\text{Ga}_{0.5}\text{Se}_2$, (c) $\text{CuIn}_{0.4}\text{Cr}_{0.2}\text{Ga}_{0.4}\text{Se}_2$, and (d) $\text{CuIn}_{0.4}\text{Cr}_{0.3}\text{Ga}_{0.3}\text{Se}_2$ nano-crystalline precursor powders at $2\mu\text{m}$.

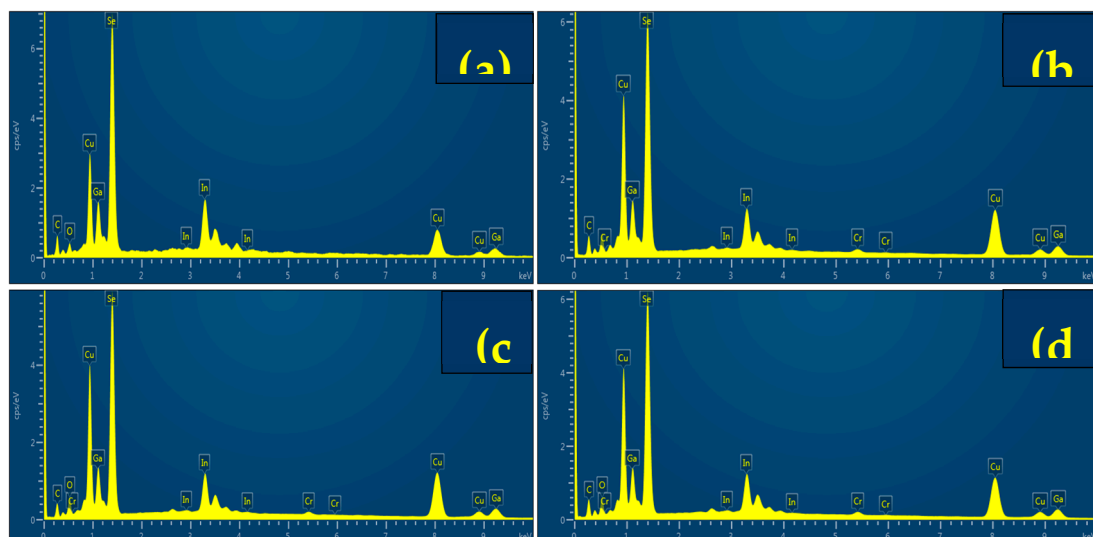


Figure 3. EDX charts for (a) $\text{CuIn}_{0.4}\text{Ga}_{0.6}\text{Se}_2$, (b) $\text{CuIn}_{0.4}\text{Cr}_{0.1}\text{Ga}_{0.5}\text{Se}_2$, (c) $\text{CuIn}_{0.4}\text{Cr}_{0.2}\text{Ga}_{0.4}\text{Se}_2$, and (d) $\text{CuIn}_{0.4}\text{Cr}_{0.3}\text{Ga}_{0.3}\text{Se}_2$ precursor powders.