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Temperature induced  $CulnSe_2$  nanocrystal formation in the  $Cu_2Se-In_3Se_2$  multilayer thin films



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## ACCEPTED MANUSCRIPT

## **Highlights:**

- CuInSe<sub>2</sub> Nanocrystal formed through Cu<sub>2</sub>Se-In<sub>3</sub>Se<sub>2</sub> multilayer structure by thermal evaporation method
- ✤ Impact of annealing on CuInSe<sub>2</sub> multilayer structures are investigated
- ✤ AFM and Photoluminescence studies confirmed formation of nanocrystals
- ✤ Photo physical propeties confirm the confinement effect in CuInSe<sub>2</sub> multilayer structure

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