



Development of High Efficiency $\text{Ag}(\text{In,Ga})\text{Se}_2$ Solar Cells

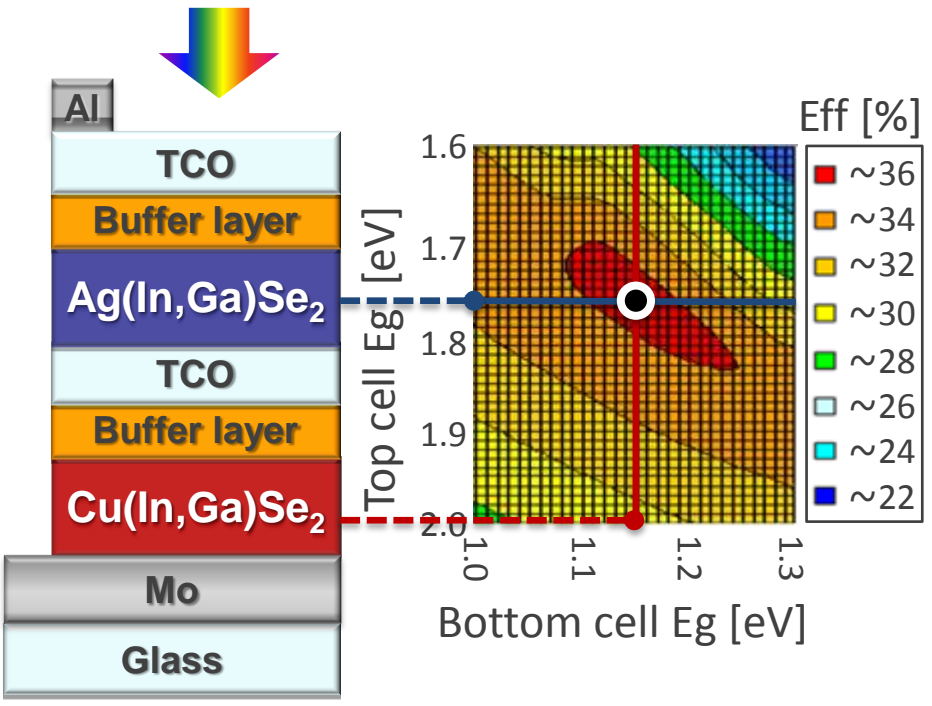
Background

In order to get high efficiency over 35%, the top cell of the tandem solar cell requires a band gap 1.75 eV. $\text{Ag}(\text{In,Ga})\text{Se}_2$ is a candidate for the top cell.

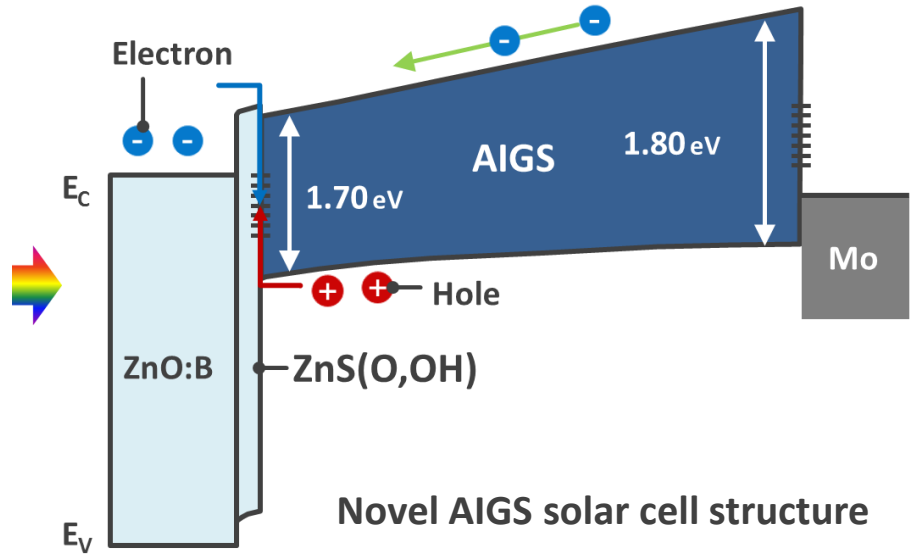


Research plans

1. Increase of hole concentration in AIGS
2. Formation of graded band profile
3. Application of $\text{ZnS}(\text{O,OH})$ buffer layer



Efficiency of tandem solar cell vs. band gap



Novel AIGS solar cell structure