

Accepted Manuscript

Title: Performance enhancement in Sb doped Cu(InGa)Se₂ thin film solar cell by e-beam evaporation

Authors: Jieyi Chen, Honglie Shen, Zihao Zhai, Yufang Li, Yunge Yi



PII: S0169-4332(17)32948-3
DOI: <https://doi.org/10.1016/j.apsusc.2017.10.025>
Reference: APSUSC 37368

To appear in: *APSUSC*

Received date: 1-7-2017
Revised date: 16-9-2017
Accepted date: 5-10-2017

Please cite this article as: Jieyi Chen, Honglie Shen, Zihao Zhai, Yufang Li, Yunge Yi, Performance enhancement in Sb doped Cu(InGa)Se₂ thin film solar cell by e-beam evaporation, *Applied Surface Science* <https://doi.org/10.1016/j.apsusc.2017.10.025>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

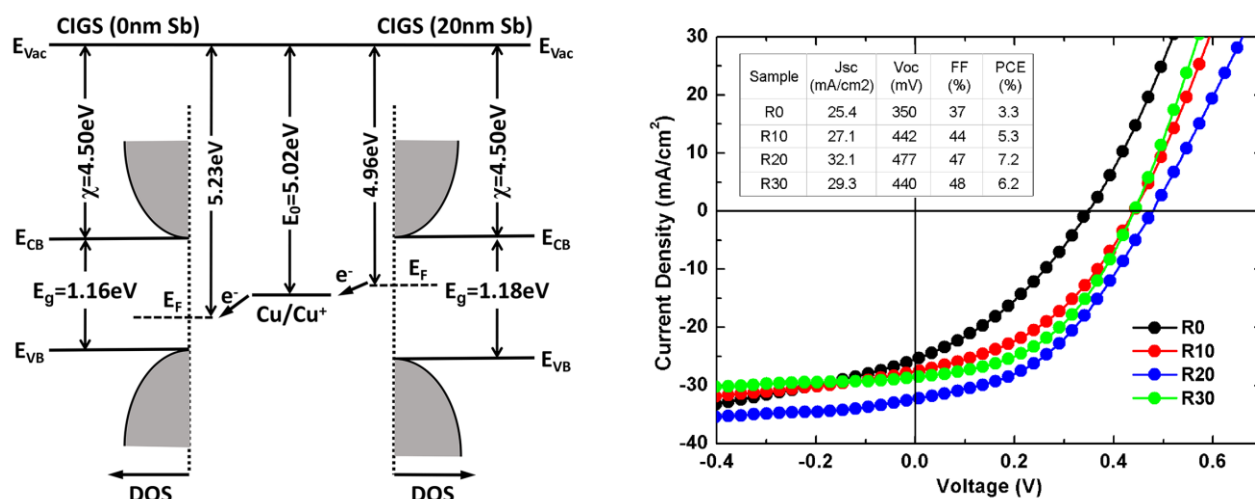
Performance enhancement in Sb doped Cu(InGa)Se₂ thin film solar cell by e-beam evaporation

Jieyi Chen^a, Honglie Shen^{a,b,*}, Zihao Zhai^a, Yufang Li^{a,b} and Yunge Yi^a

^a College of Materials Science & Technology, Jiangsu Key Laboratory of Materials and Technology for Energy Conversion, Nanjing University of Aeronautics & Astronautics, 29 Yudao Street, Nanjing 210016, PR China

^b State Key Laboratory of Advanced Technology for Float Glass, Bengbu Design & Research Institute for Glass Industry, 1047 Tushan Road, Bengbu 233018, Anhui, PR China

Graphical abstract



Highlights

- Well crystallized CIGS films were prepared by e-beam evaporation.
- Crystal quality and compactness of CIGS thin films were improved by Sb doping.
- Cu inward migration in CIGS film resulted in Fermi level movement by

Download English Version:

<https://daneshyari.com/en/article/7836297>

Download Persian Version:

<https://daneshyari.com/article/7836297>

[Daneshyari.com](https://daneshyari.com)