

## Accepted Manuscript

From sputtered metal precursors towards  $\text{Cu}_2\text{Zn}(\text{Sn}_{1-x}\text{Ge}_x)\text{Se}_4$  thin film solar cells with shallow back grading

C. Andres, A. Cabas-Vidani, A.N. Tiwari, Y.E. Romanyuk



PII: S0040-6090(18)30621-7  
DOI: [doi:10.1016/j.tsf.2018.09.022](https://doi.org/10.1016/j.tsf.2018.09.022)  
Reference: TSF 36884  
To appear in: *Thin Solid Films*  
Received date: 10 July 2018  
Revised date: 11 September 2018  
Accepted date: 12 September 2018

Please cite this article as: C. Andres, A. Cabas-Vidani, A.N. Tiwari, Y.E. Romanyuk , From sputtered metal precursors towards  $\text{Cu}_2\text{Zn}(\text{Sn}_{1-x}\text{Ge}_x)\text{Se}_4$  thin film solar cells with shallow back grading. *Tsf* (2018), doi:[10.1016/j.tsf.2018.09.022](https://doi.org/10.1016/j.tsf.2018.09.022)

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.

**From sputtered metal precursors towards  $\text{Cu}_2\text{Zn}(\text{Sn}_{1-x}\text{Ge}_x)\text{Se}_4$  thin film solar cells with shallow back grading**

C. Andres \*, A. Cabas-Vidani, A. N. Tiwari, Y. E. Romanyuk

Laboratory for Thin Films and Photovoltaics, Empa – Swiss Federal Laboratories for Materials Science and Technology, Ueberlandstrasse 129, 8600 Duebendorf, Switzerland

\* Corresponding author: e-mail: christian.andres@empa.ch, Phone: +41 58 765 48 17, Fax: +41 58 765 40 42

Download English Version:

<https://daneshyari.com/en/article/10147658>

Download Persian Version:

<https://daneshyari.com/article/10147658>

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