

Electronic Supplementary Material (ESI) for Green Chemistry

Boosting the efficiency of solution-based CZTSSe solar cells by using supercritical carbon dioxide treatment

Hai-Qin Xiao, Wen-Hui Zhou*, Dong-Xing Kou, Zheng-Ji Zhou, Yue-Na Meng,

Ya-Fang Qi, Sheng-Jie Yuan, Qing-Wen Tian and Si-Xin Wu**

The Key Laboratory for Special Functional Materials of MOE, School of Materials Science and Engineering, National & Local Joint Engineering Research Center for High-efficiency Display and Lighting Technology, Collaborative Innovation Center of Nano Functional Materials and Applications, Henan University, Kaifeng 475004, China

* Corresponding author. E-mail addresses: zhouwh@vip.henu.edu.cn

(zhouwh@foxmail.com)

** Corresponding author. E-mail addresses: wusixin@henu.edu.cn

Contents:

Fig. S1 Statistical distribution of photovoltaic parameters (J_{sc} , V_{oc} , FF and PCE) for CZTSSe solar cells treated under optimal conditions and references.

Fig. S2 EDS spectra of CZTSSe precursor films with (SCCO₂) and without (ref) SCCO₂ treatment after selenization.

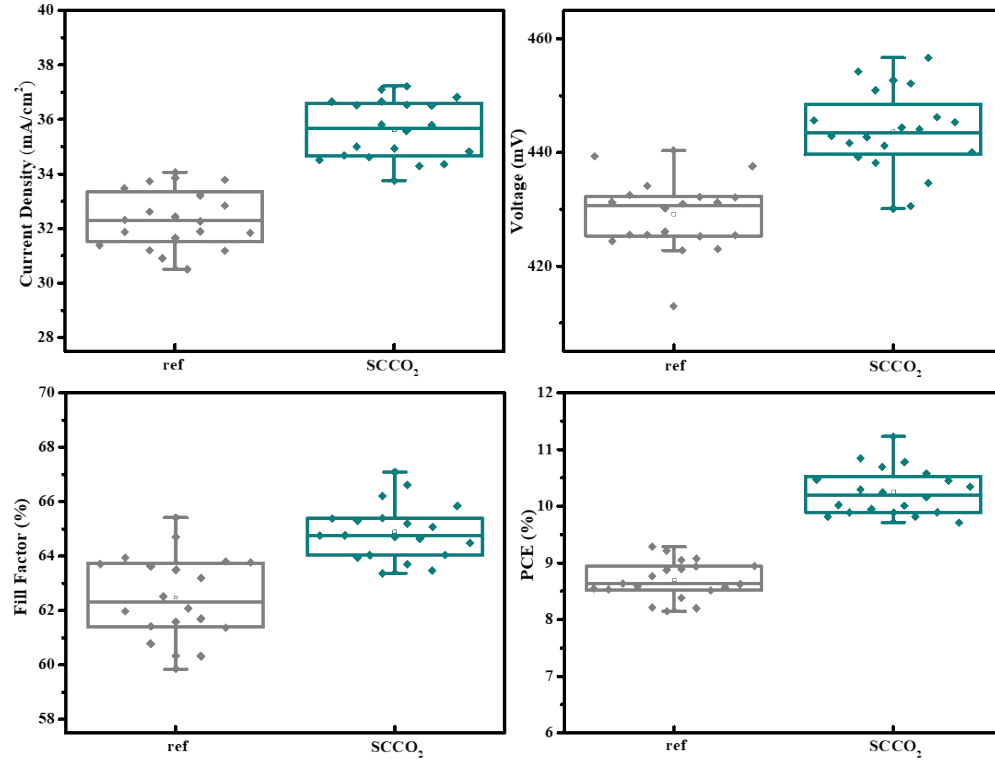


Fig. S1 Statistical distribution of photovoltaic parameters (J_{sc} , V_{oc} , FF and PCE) for CZTSSe solar cells treated under optimal conditions and references.

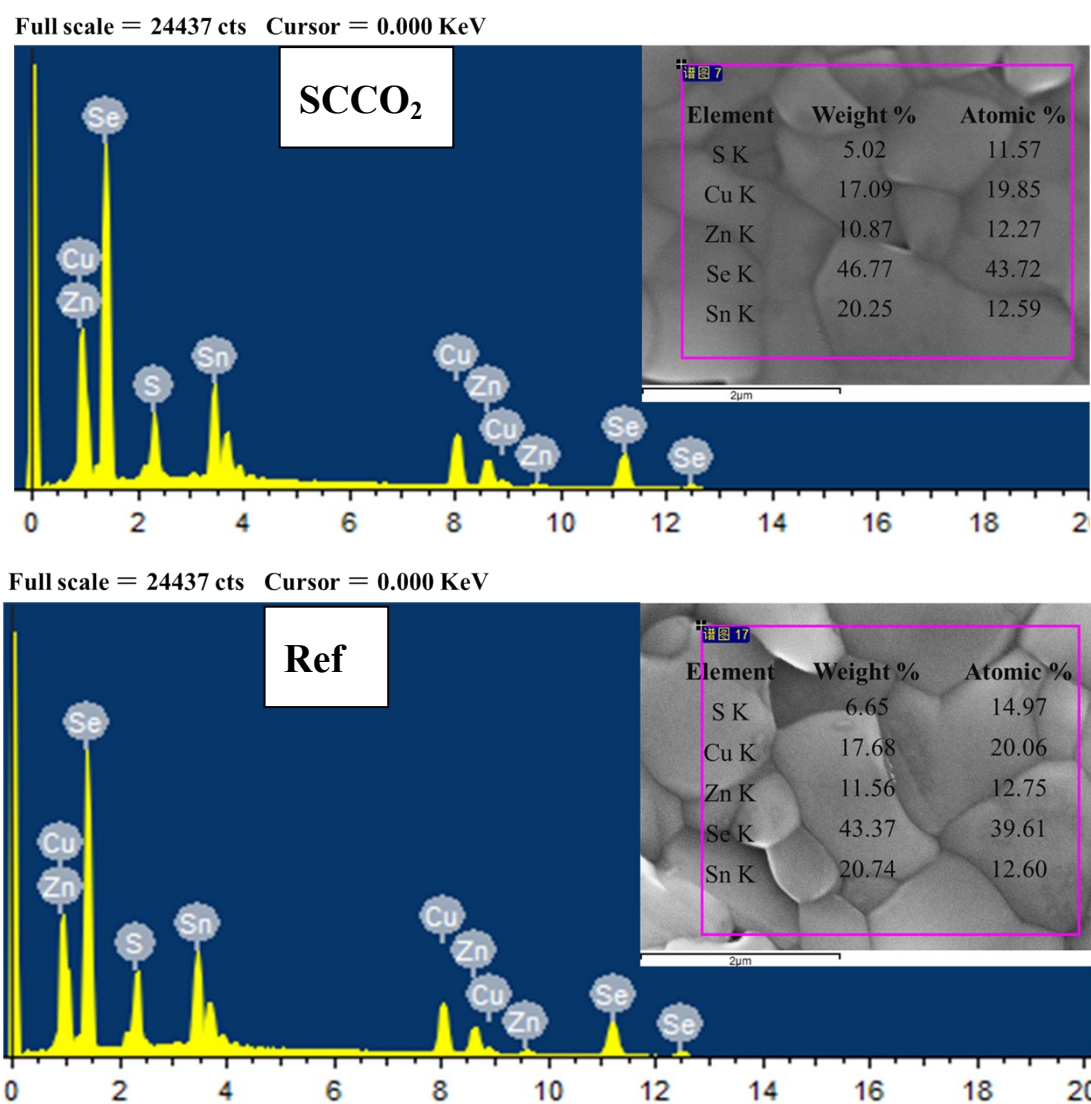


Fig. S2 EDS spectra of CZTSSe precursor films with (SCCO₂) and without (ref) SCCO₂ treatment after selenization.