

Electronic Supplementary Material:

CZTS thin film solar cells on flexible Molybdenum foil by electrodeposition-annealing route

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Figure S1 describes the geometry of the rotating electrode employed. The latter was a simple L shaped working electrode, formed by bending the Mo foil in L shape.

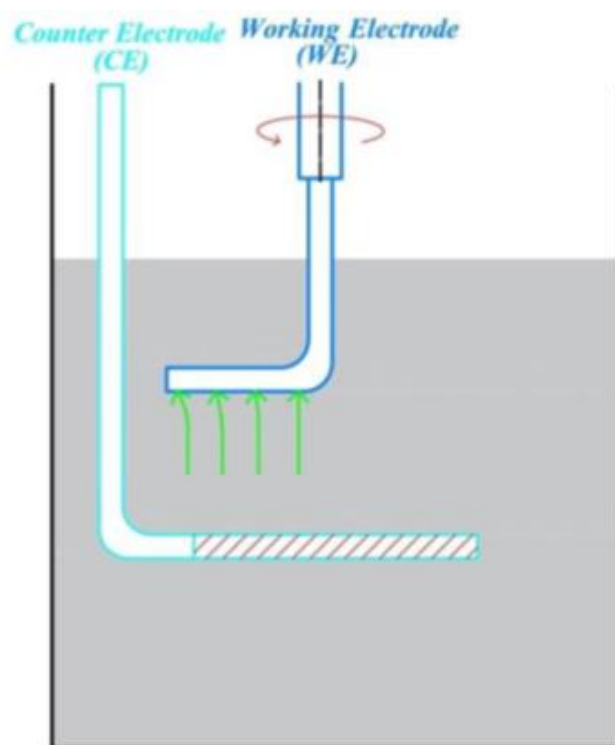


Fig. S1: Cell geometry for CZT electrodeposition.

Fig. S2-S6 report additional TEM results obtained from the sulfurized CZTS layer. Fig. S7 depicts the photoluminescence spectrum performed on the CZTS film.

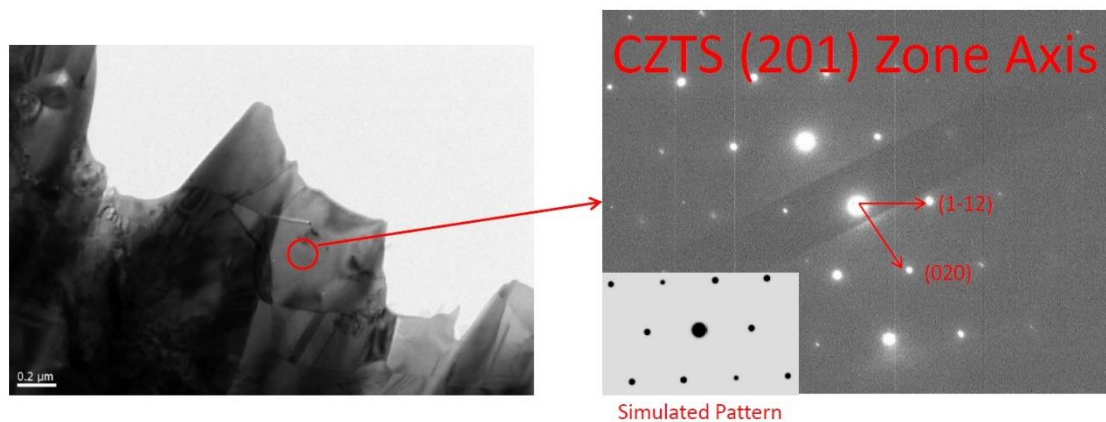


Fig. S2: TEM picture of a zone containing only CZTS grains and SAED pattern of a CZTS grain.

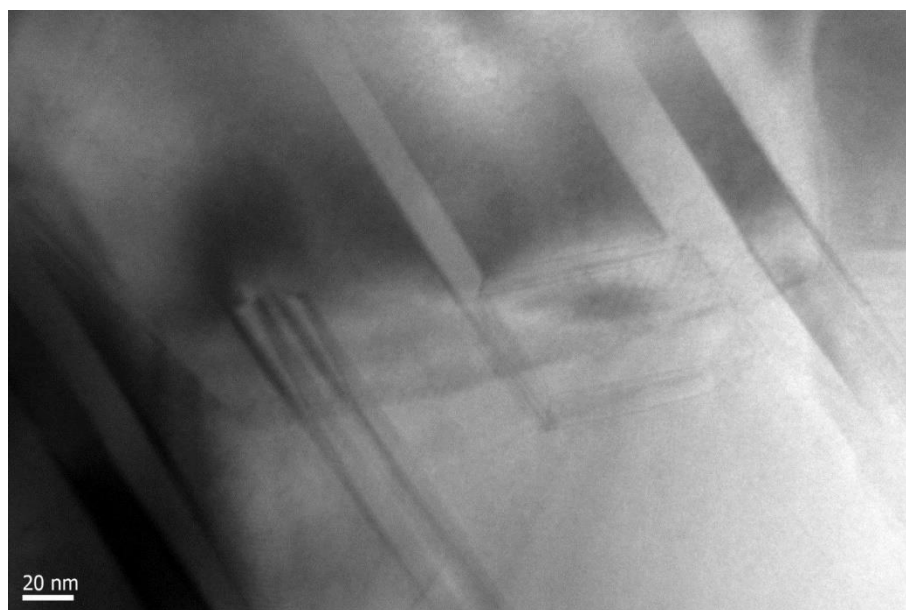


Fig. S3: TEM image of a CZTS grain, showing dislocations and twin boundaries.

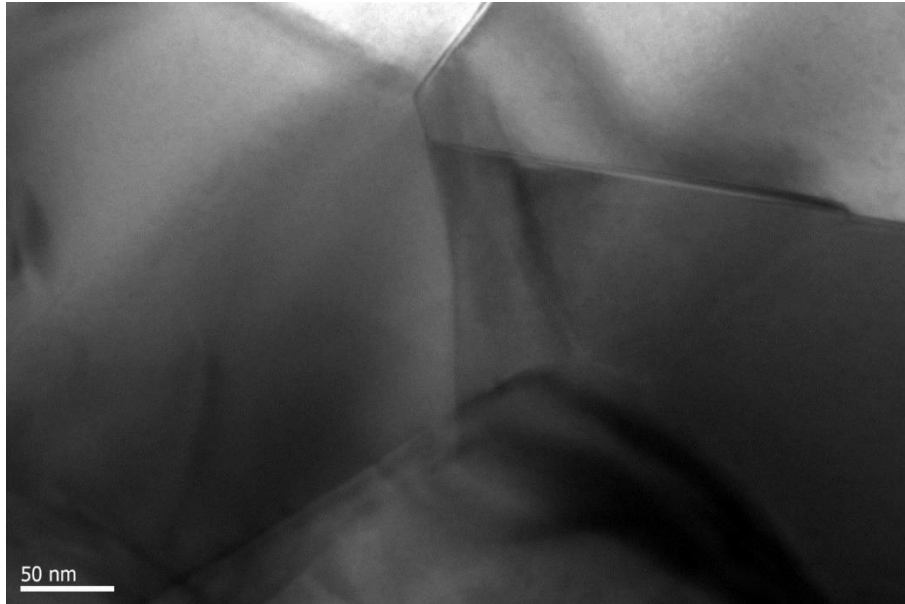


Fig. S4: TEM image of a CZTS grain, showing dislocations and twin boundaries.

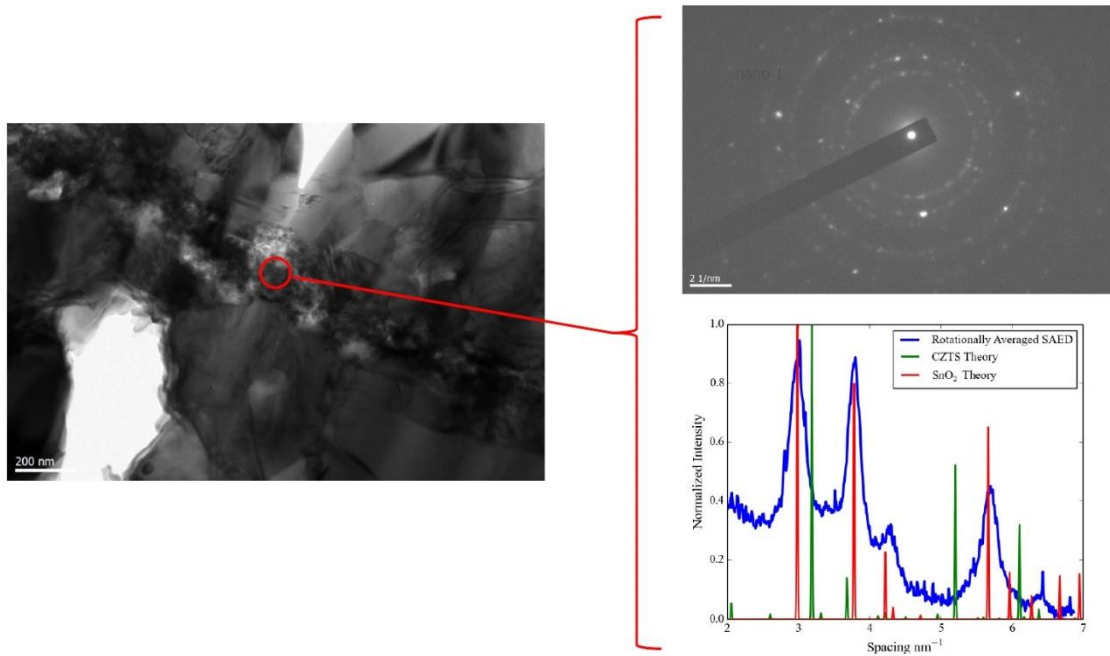


Fig. S5: TEM picture of a zone containing both CZTS and a impurity composed of SnO₂,
SAED pattern of the impurity and rotationally averaged SAED pattern of the same.

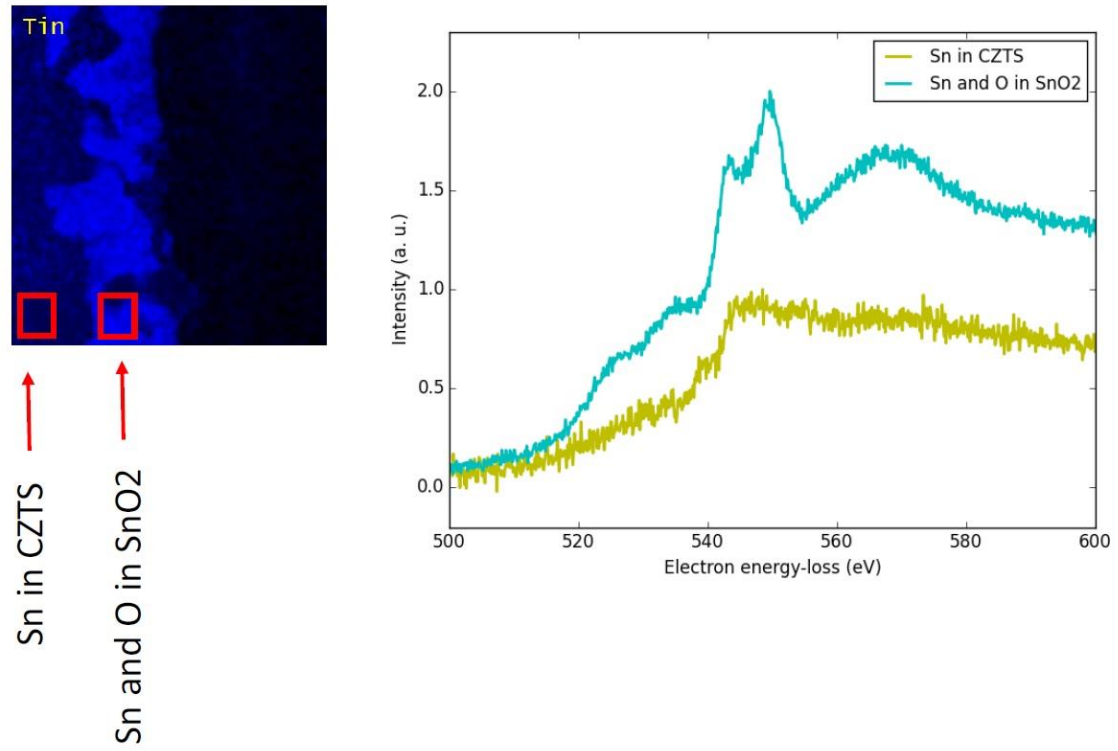


Fig. S6: electron energy loss spectroscopy (EELS) spectra of the Sn and O at the interface of CZTS/Mo.

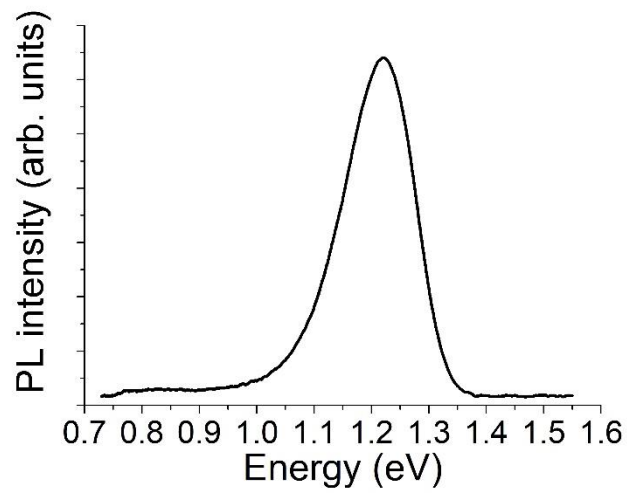


Fig. S7: photoluminescence spectrum of CZTS films ($T=15$ K, power density= 3 W/cm 2).