



SUPPORTING INFORMATION

Electrodeposition of nanoparticles and continuous film of CdSe on n-Si (100)

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We report the SEM images of sample A (Cd on n-Si, Figure S1) and sample B (Se on n-Si, Figure S2) at same high magnification of Sample C and B.



Figure S1. SEM analysis of sample A (of 30 nmol of Cd deposited on n-Si) at high magnification.



Figure S2. SEM analysis of sample B (30 nmol of Se deposited on n-Si) at high magnification.

In Figure S3 we report the electrochemical behavior of Cd²⁺ on Se/n-Si (Figure S3a) and Se(IV) on Cd/n-Si (Figure S3b). The absence of the anodic peak of cadmium suggest the formation of a compound.



Figure S3. a) CV of Cd²⁺ solution on Se deposited on n-Si performed between -0.55 V and -0.9 V, scan rate 10 mV/s; b) a) CV of Se(IV) solution on Cd deposited on n-Si performed between -0.9 V and -0.2 V, scan rate 10 mV/s;.



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