

Supplementary Materials: SnS_x (x=1, 2) nanocrystals as effective catalysts for photoelectrochemical water splitting

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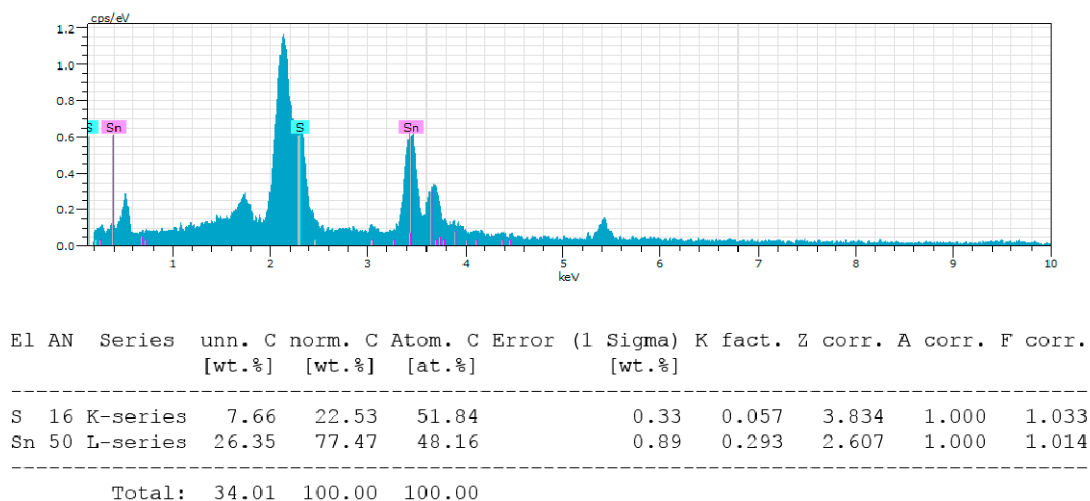


Figure. S1. Elemental analyses of the SnS thin films samples by EDX spectroscopy indicate the presence of Sn and S.

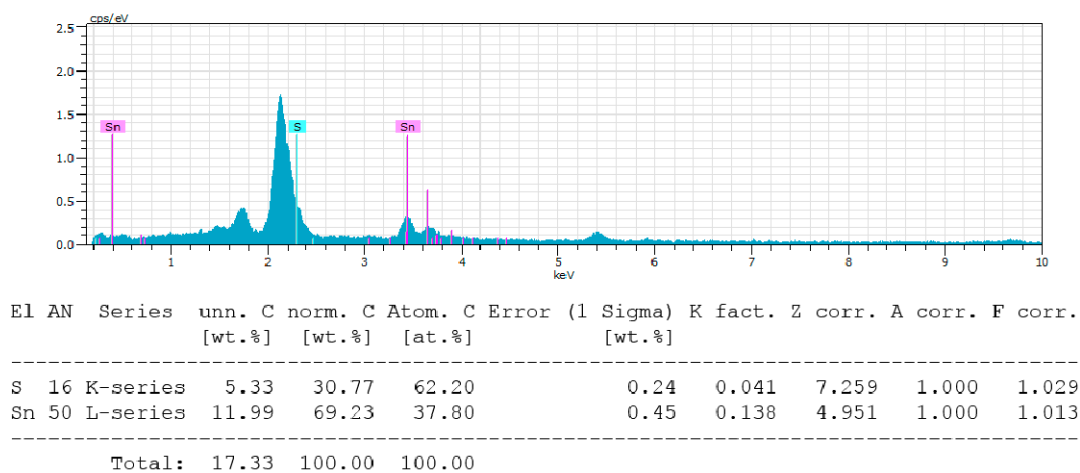


Figure. S2. Elemental analyses of the SnS₂ thin films samples by EDX spectroscopy indicate the presence of Sn and S.

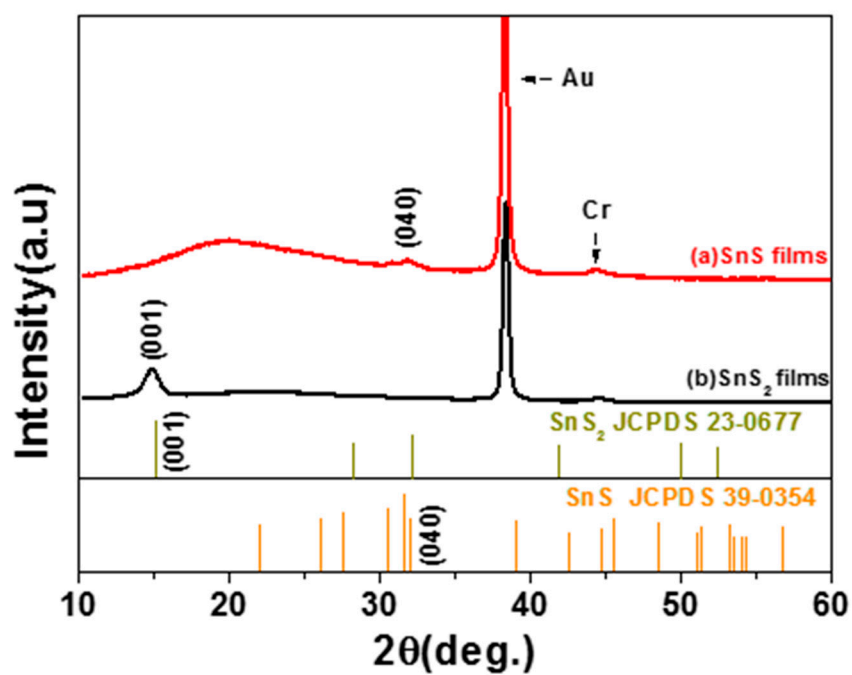


Figure.S3. XRD pattern of the (a) SnS thin film, and (b) SnS₂ thin film after 3600sec stability test.

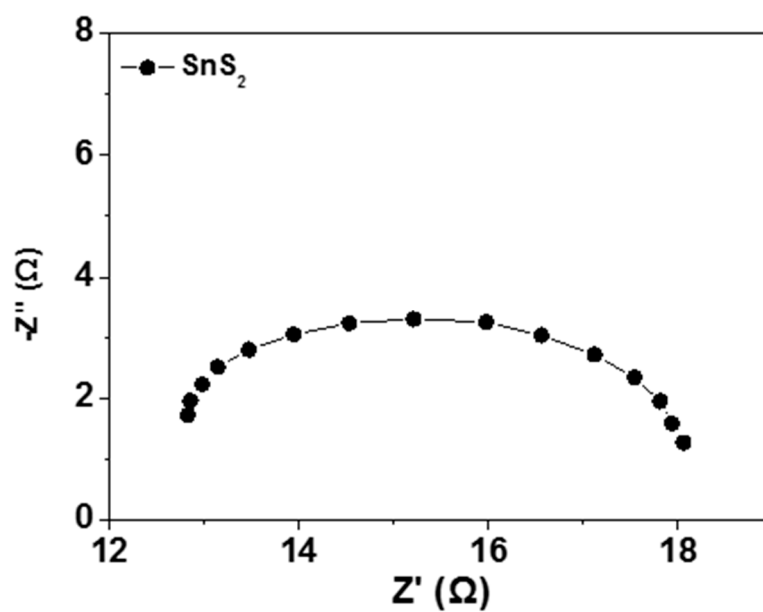


Figure.S4. Electrochemical impedance spectra of SnS₂ thin films.

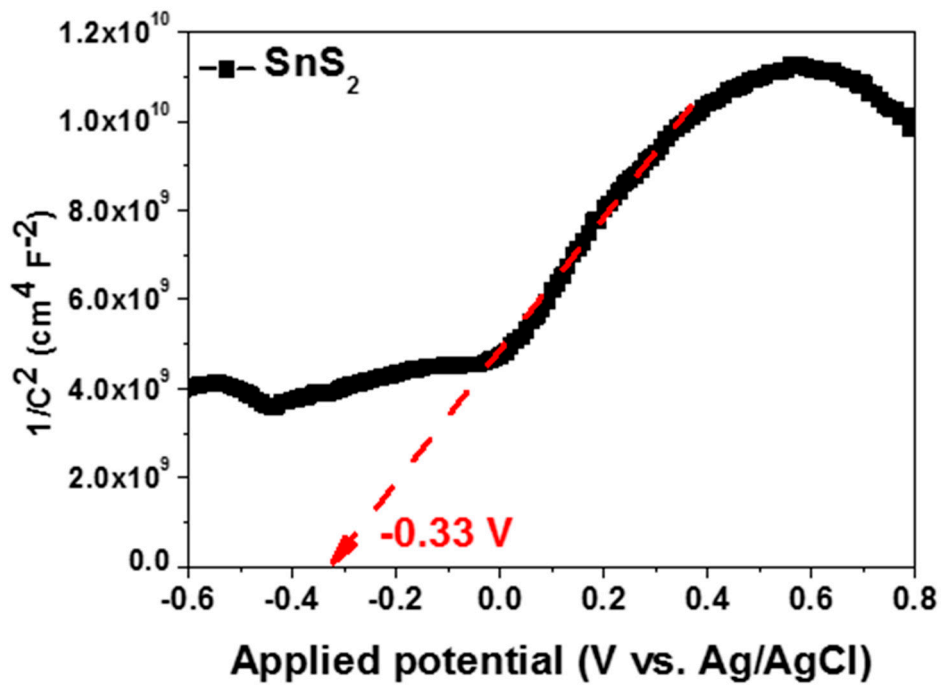


Figure.S5. Mott-Schottky plots of SnS₂ thin films.

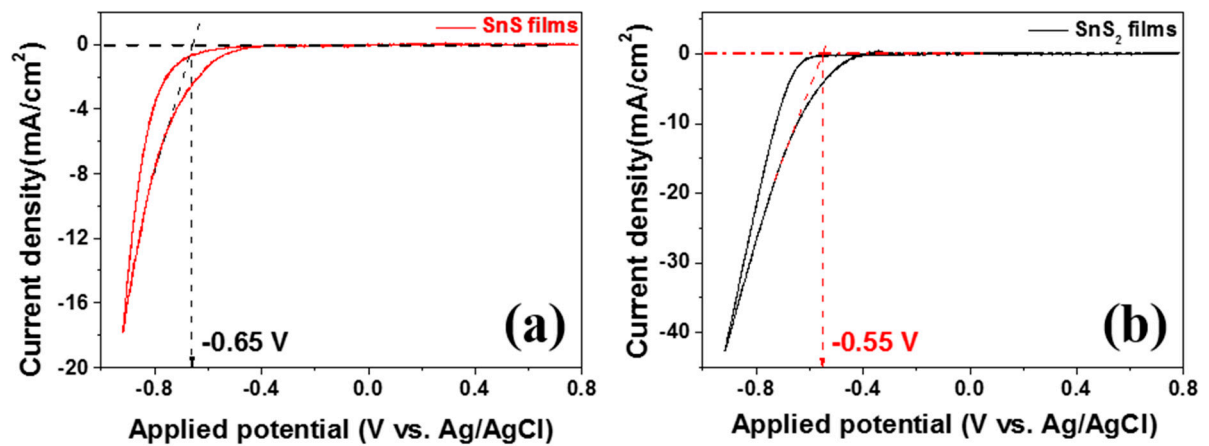


Figure. S6. (a) SnS, (b) SnS₂ cyclic voltammograms for determination of reduction onset potential