Supplementary Information

Enhanced photoelectrical performance of chemically processed

SnS₂ nanoplates

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Fig. S1. Raman spectrum of SnS$_2$ nanoplates and inset shows the photograph of the SnS$_2$ suspensions
Figure S2. Mott-Schottky plots of SnS$_2$ nanoplates.
Figure S3. I-V characteristics of lateral SnS$_2$ device under dark and light illumination.