

## Supporting Information

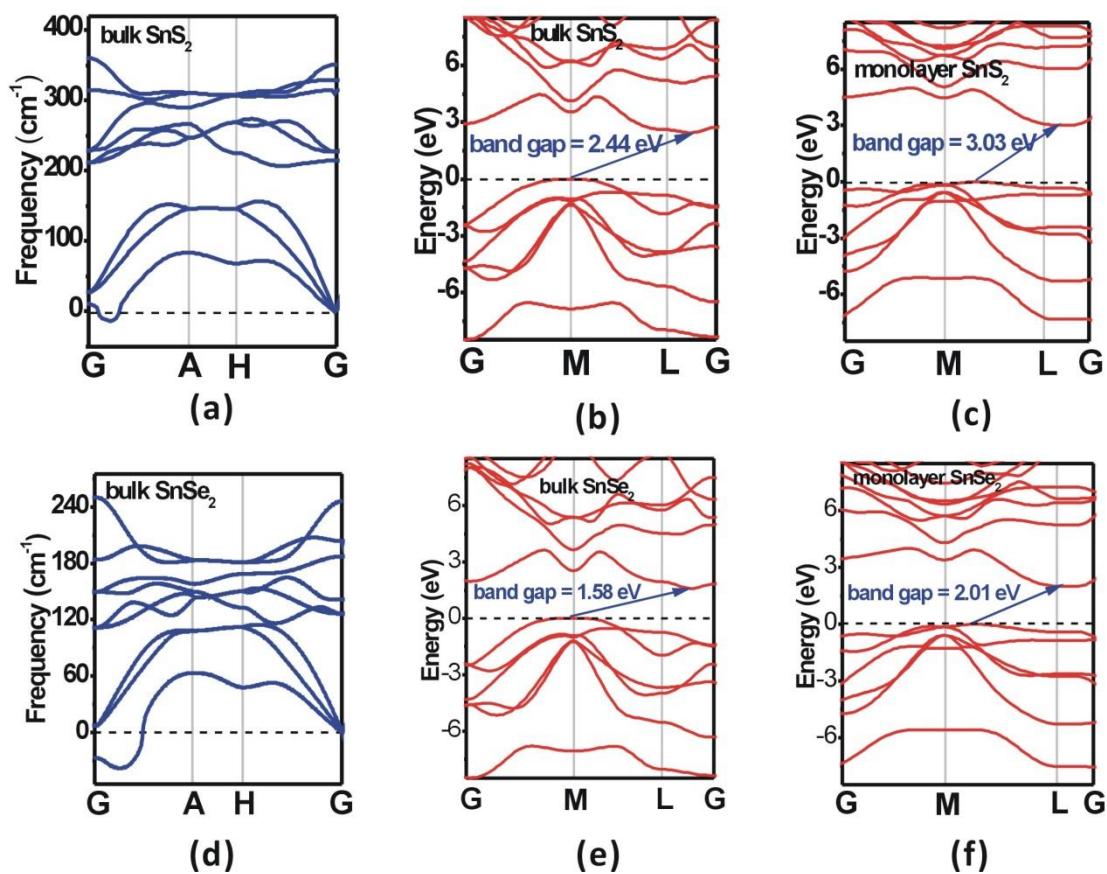
### **Enhanced the Visible Light Absorption Performance of SnS<sub>2</sub> and SnSe<sub>2</sub> via Surface Charge Transfer Doping**

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**Figure S1.** The phonon spectra of bulk (a) SnS<sub>2</sub> and (d) SnSe<sub>2</sub>, (b), (c), (e) and (f) are the band structure of bulk phase and monolayers at the HSE06 level.