

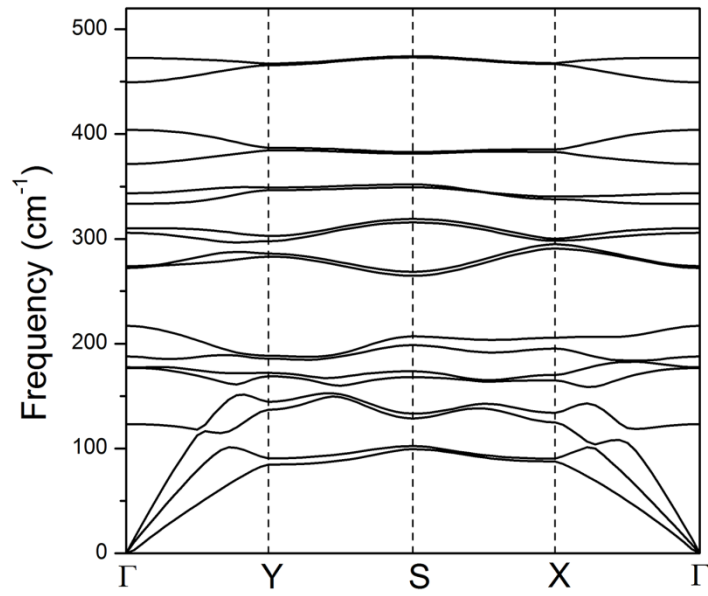
**Electronic Supplementary Information**

**Not Your Familiar Two Dimensional Transition Metal Disulfide:  
Structural and Electronic Properties of PdS<sub>2</sub> Monolayer**

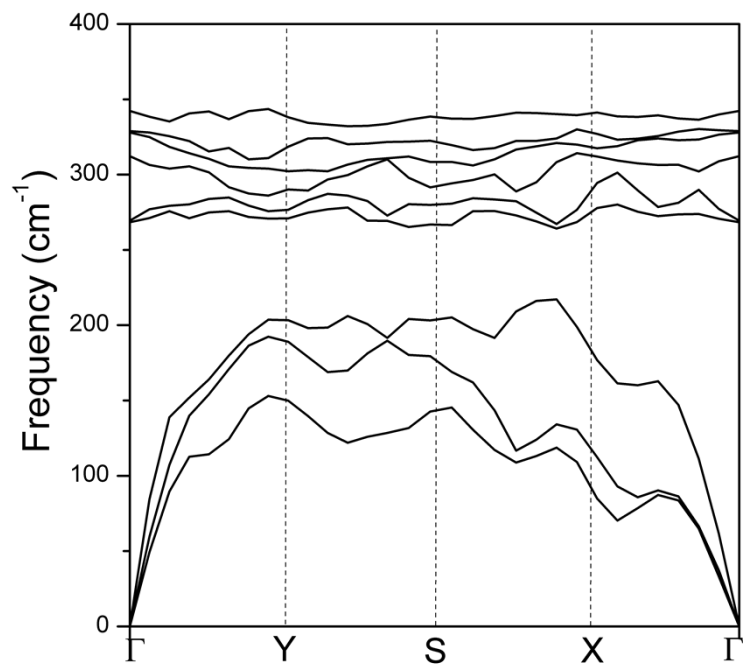
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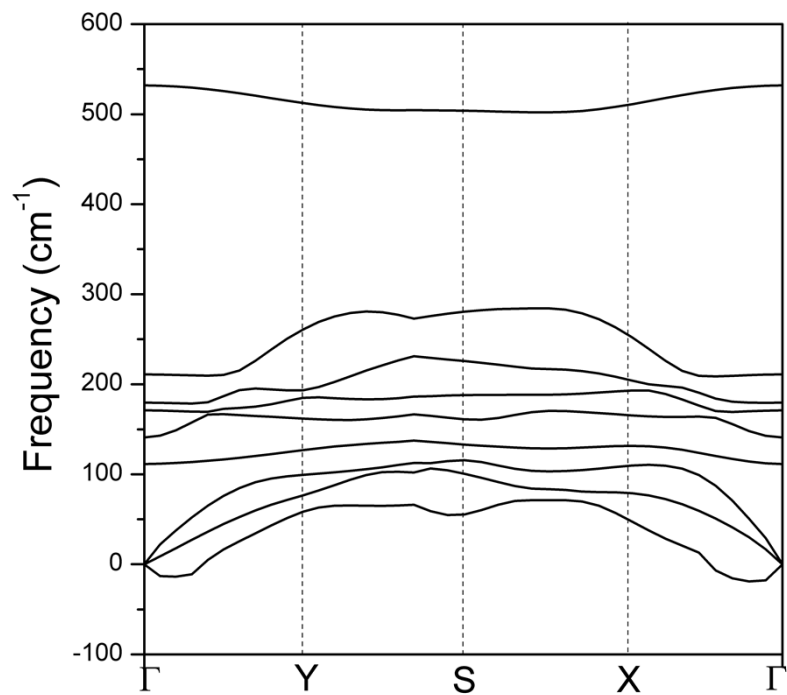
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**Fig. S1** Phonon spectrum of PdS<sub>2</sub> monolayer.



**Fig. S2** Phonon spectrum of PdS<sub>2</sub> monolayer with the 1T configuration.



**Fig. S3** Phonon spectrum of PdS<sub>2</sub> monolayer with the 2H configuration.