

## Supplementary Information

### **Toxicity of exfoliated-MoS<sub>2</sub> and annealed exfoliated-MoS<sub>2</sub> towards planktonic cells, biofilms, and mammalian cells in the presence of electron donor**

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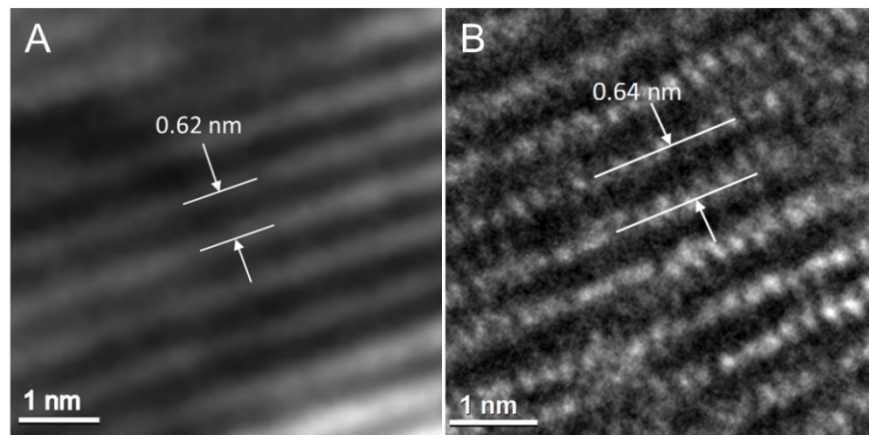


Figure S1 HRTEM images show the cross-sectional view of (A) bulk-MoS<sub>2</sub> and (B) Ex-MoS<sub>2</sub> along the *c*-axis.

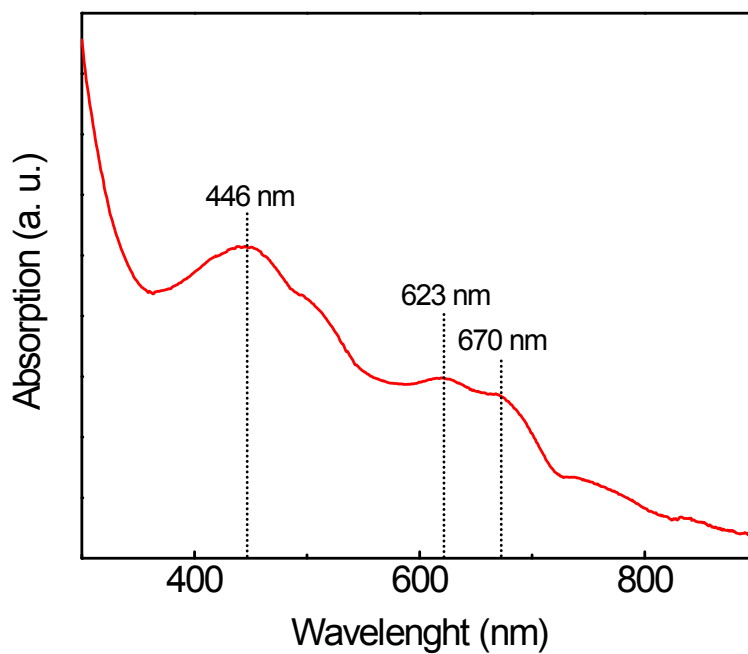


Figure S2 UV-Vis spectra of single layer Ex-MoS<sub>2</sub> dispersion in H<sub>2</sub>O.

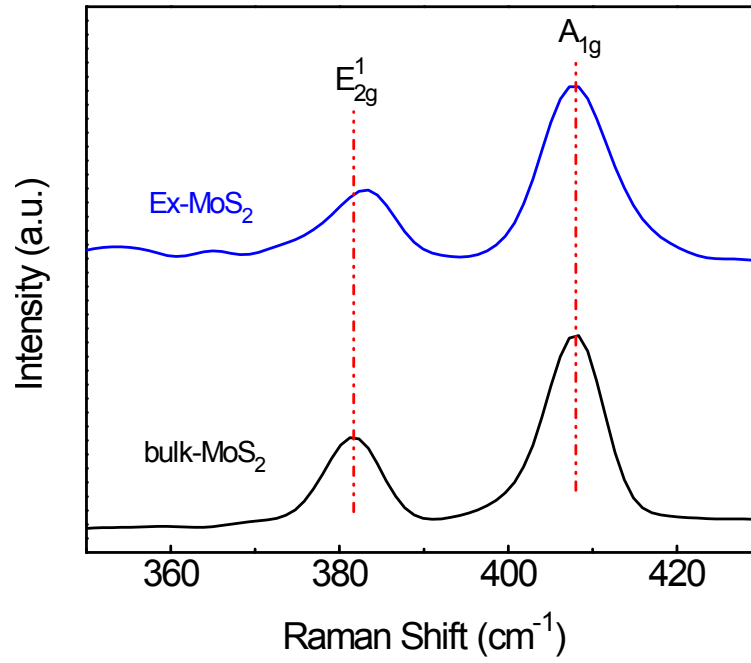


Figure S3 Raman spectra of bulk MoS<sub>2</sub> and ex-MoS<sub>2</sub> of E<sub>2g</sub><sup>1</sup> and A<sub>1g</sub> peaks.