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## **Supporting Information**

### **Dispersible MoS<sub>2</sub> micro-sheets Induced Proinflammatory Response and Apoptosis in the Gill and Liver of Adult Zebrafish**

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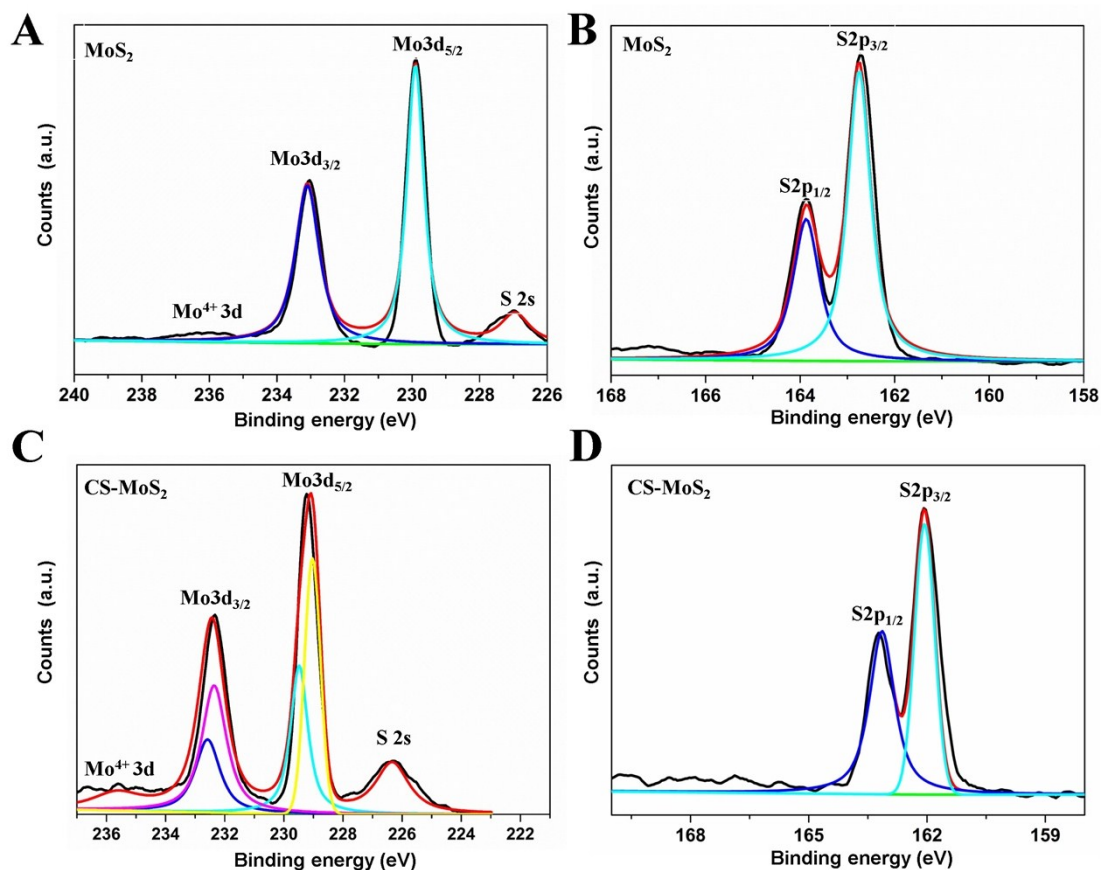


Fig. S1 (A-B) XPS spectra of native MoS<sub>2</sub> (Mo 3d and S 2p); (C-D) XPS spectra of CS-MoS<sub>2</sub> micro-sheets (Mo 3d and S 2p). (Adapted with permission from (Yadong Yu, et al., Dispersible MoS<sub>2</sub> Nanosheets Activated TGF- $\beta$ /Smad Pathway and Perturbed the Metabolome of Human Dermal Fibroblasts, *ACS Biomater. Sci. Eng.*, 2017, 3 (12): 3261–3272). Copyright (2017) American Chemical Society.)

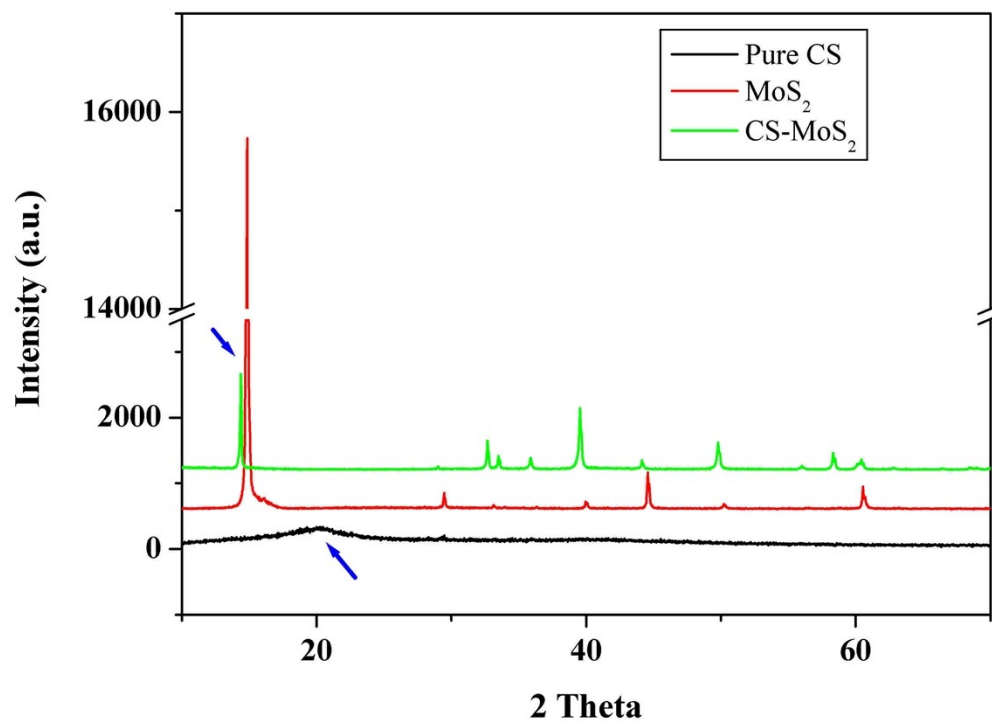


Fig. S2 XRD patterns of Chitosan (CS), MoS<sub>2</sub> and CS-MoS<sub>2</sub> micro-sheets.