

Supporting Information

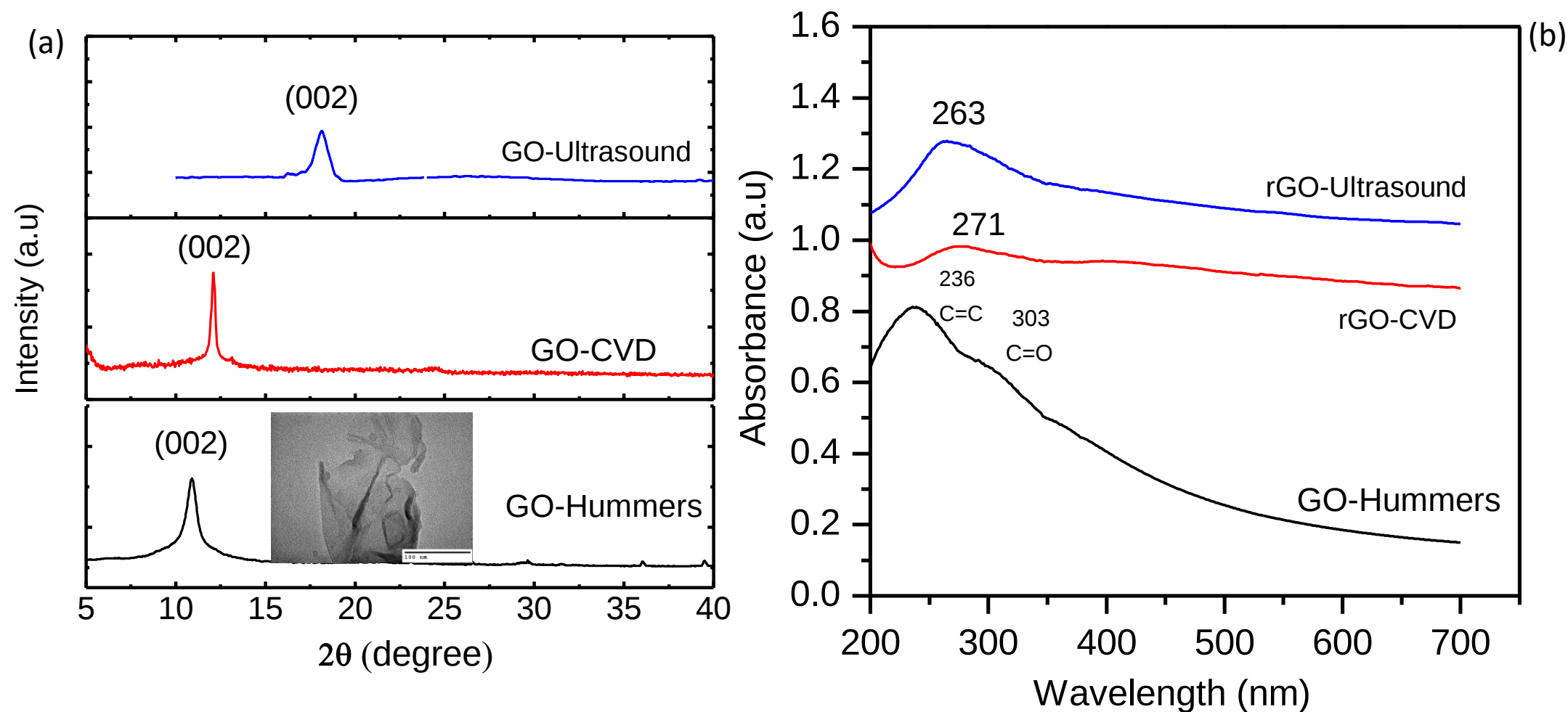


Fig.S1. (a) XRD patterns of GO, rGO – CVD; (b) UV-vis spectra of GO, rGO – CVD and rGO-Ultrasound; inset (a) TEM image of GO-Hummers

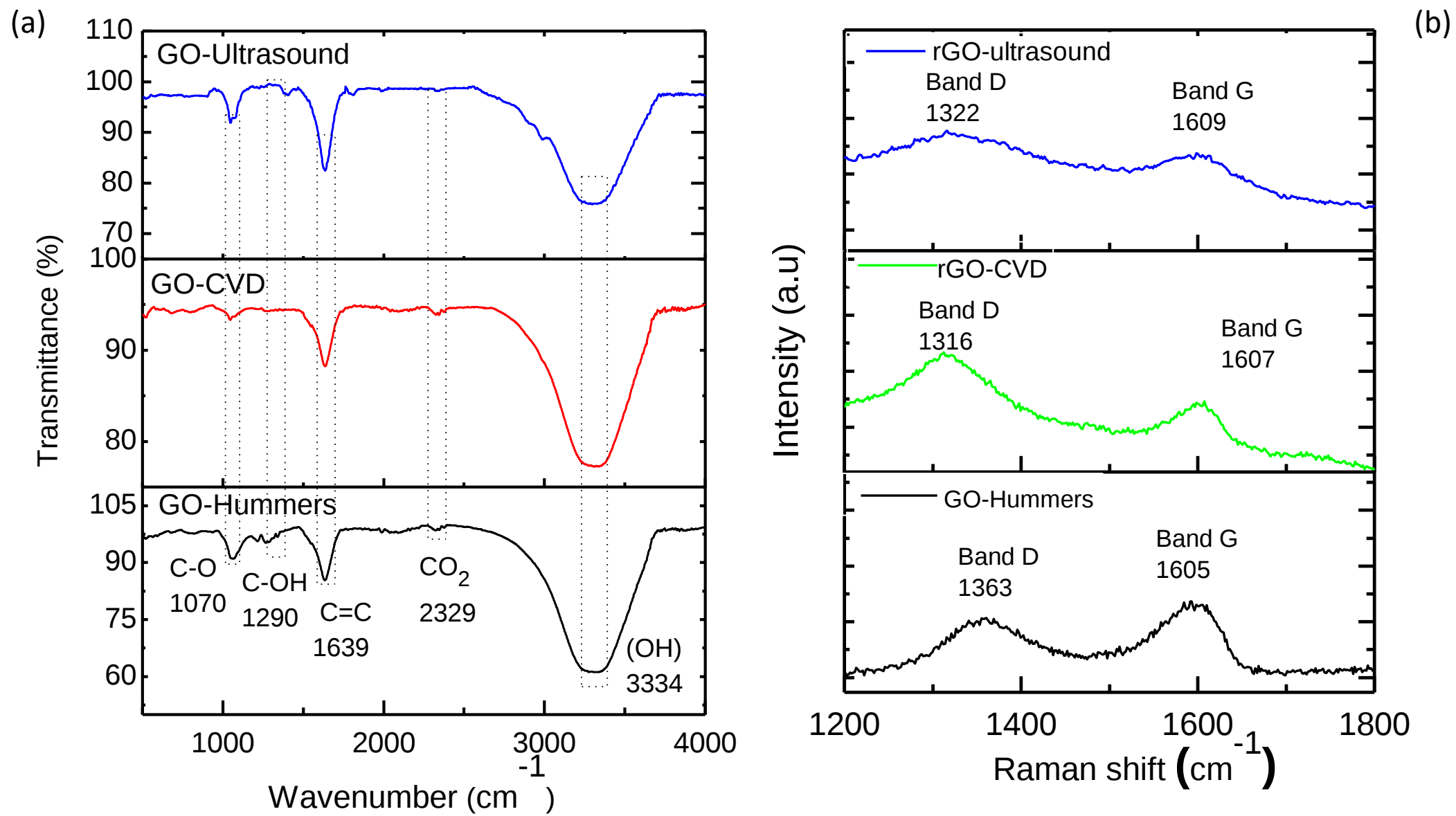


Fig. S2 FTIR (a) and Raman (b) spectra of GO, rGO – CVD and rGO-Ultrasound

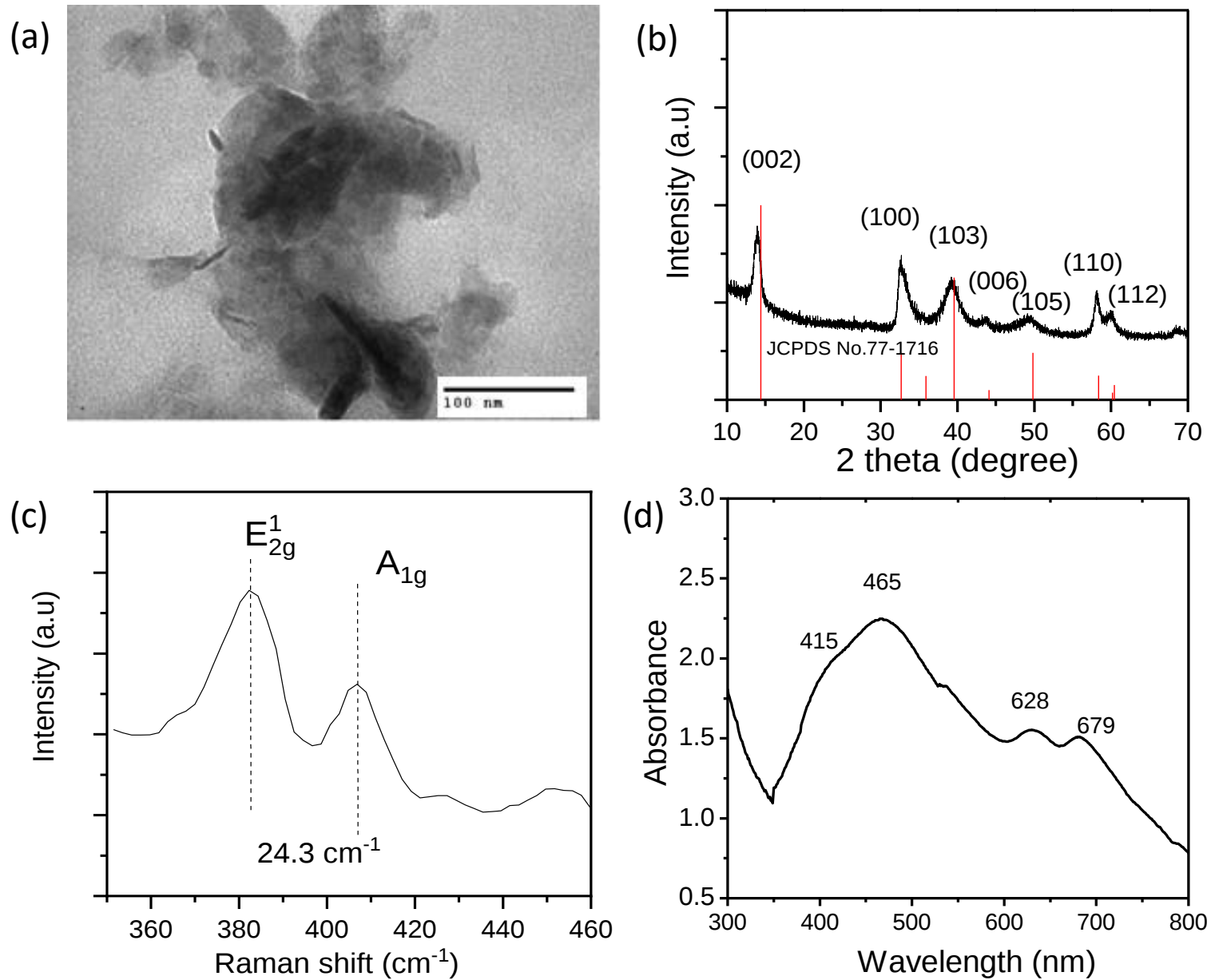


Fig. S3. (a) TEM image, (b) XRD pattern, (c) Raman spectrum and (d) UV-vis spectrum of MoS₂ nanosheets

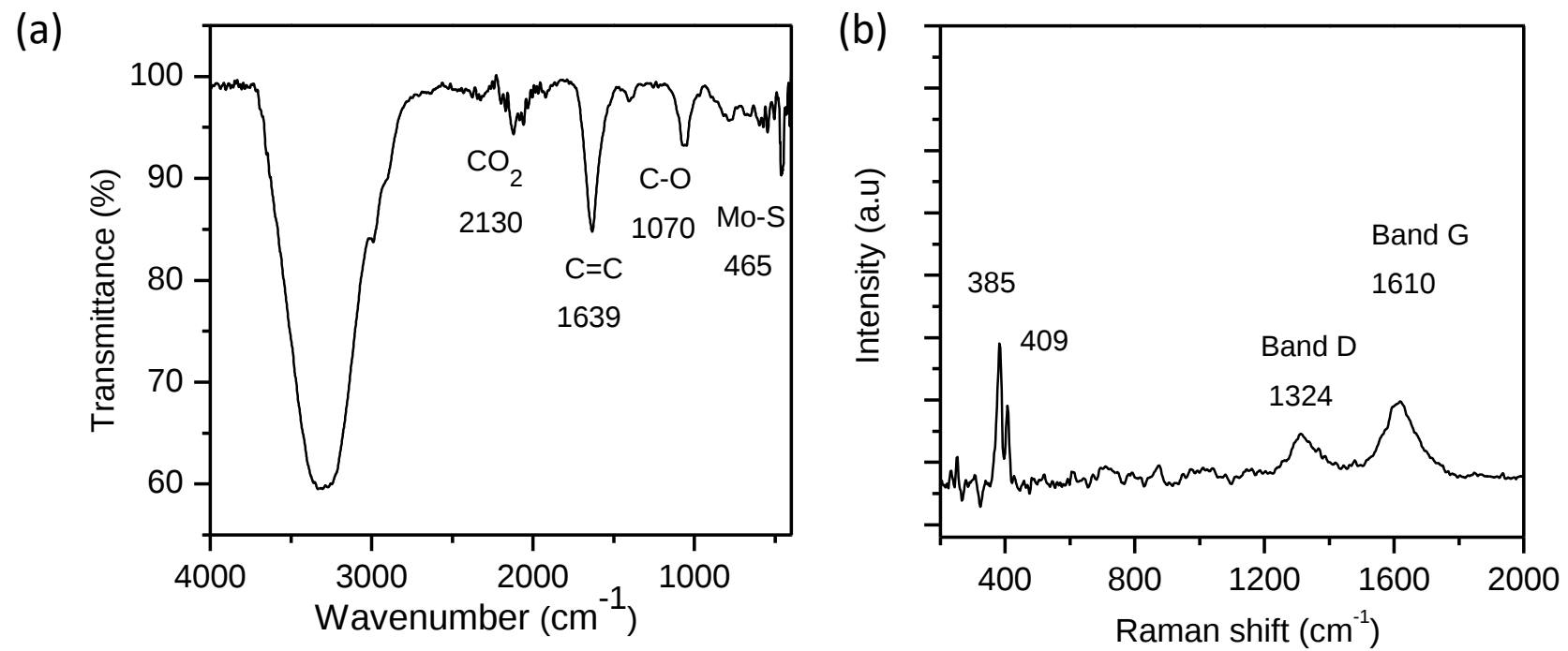


Fig. S4. (a) FTIR and (b) Raman spectrum of GO-MoS₂ nanosheets

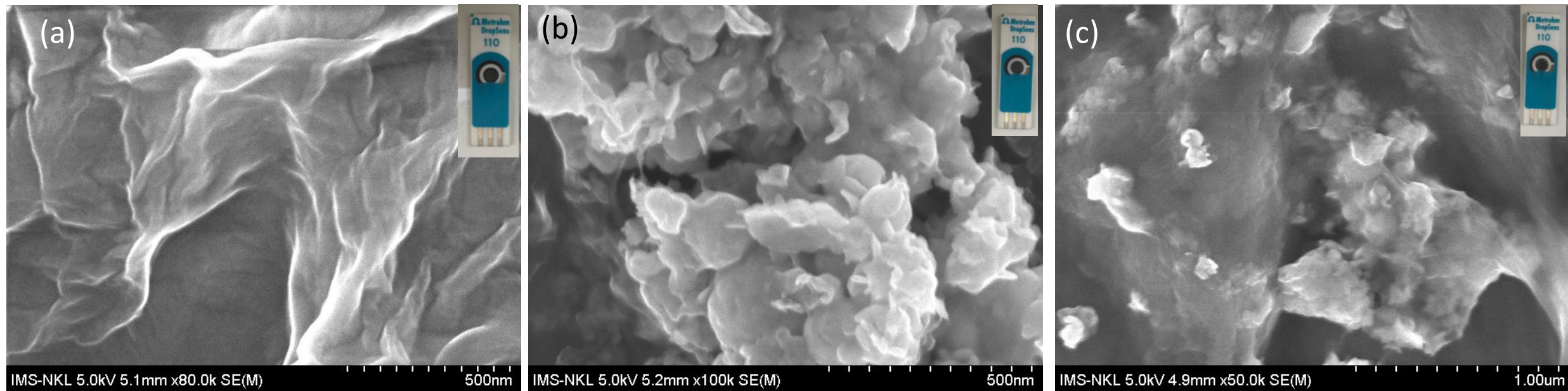


Fig. S5. SEM images of (a) GO-Hummers/SPE, (b) MoS₂/SPE and (c) GO-MoS₂/SPE; inset (a) photograph of GO-Hummers/SPE; inset (b) photograph of MoS₂/SPE; inset (c) photograph of GO-MoS₂/SPE

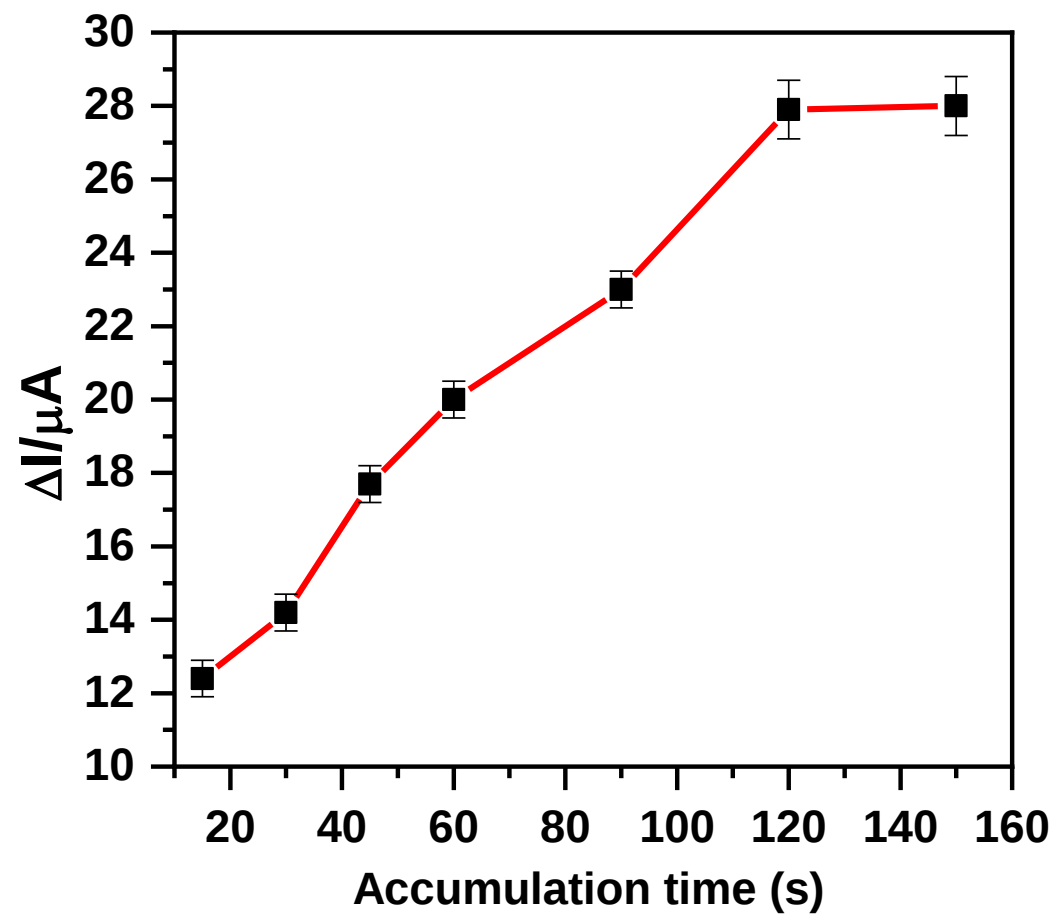


Fig S6. Effect of accumulation time(s)

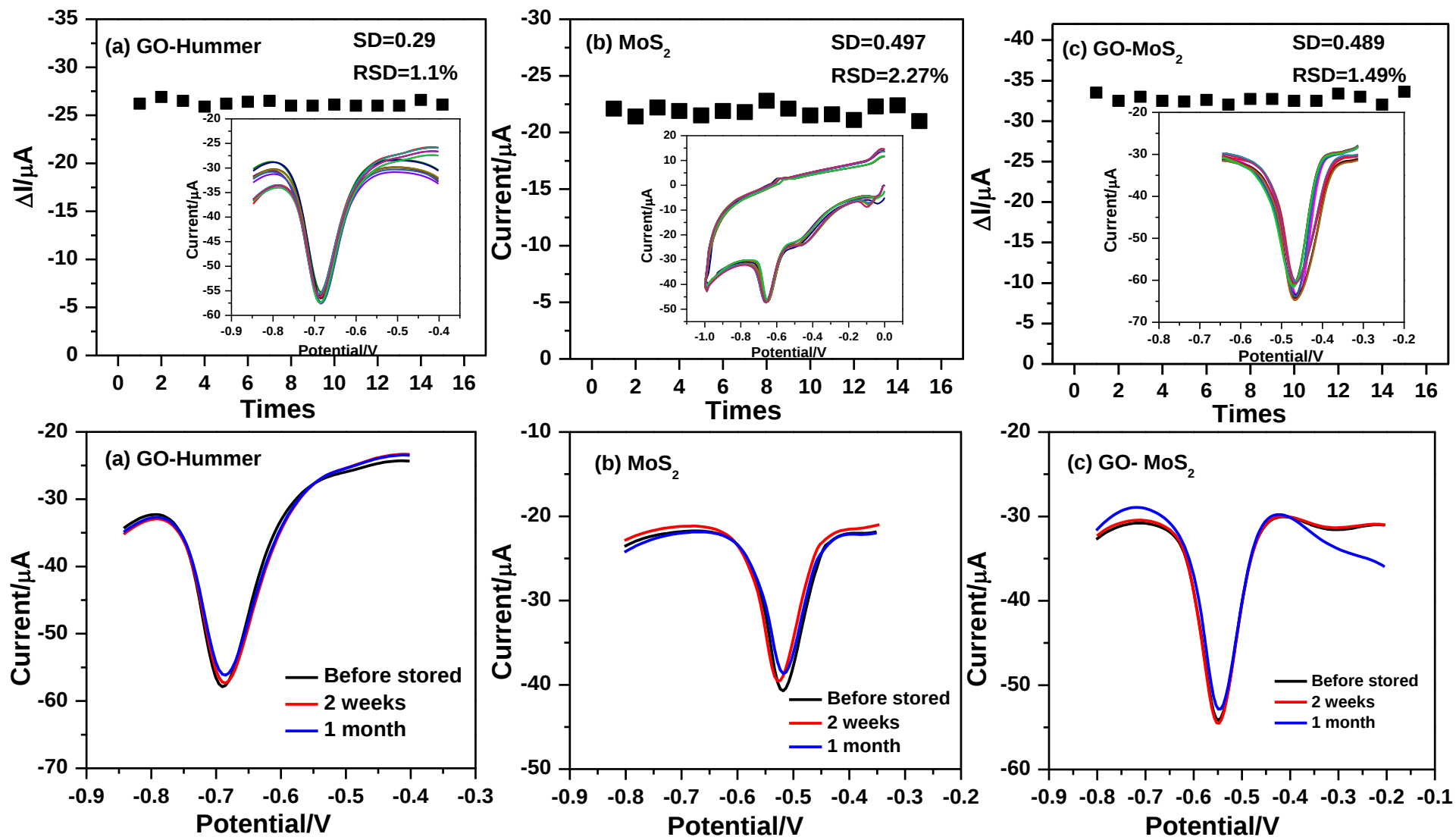


Figure S7. Repeatability and stability of the modified electrodes in 45 μM CAP

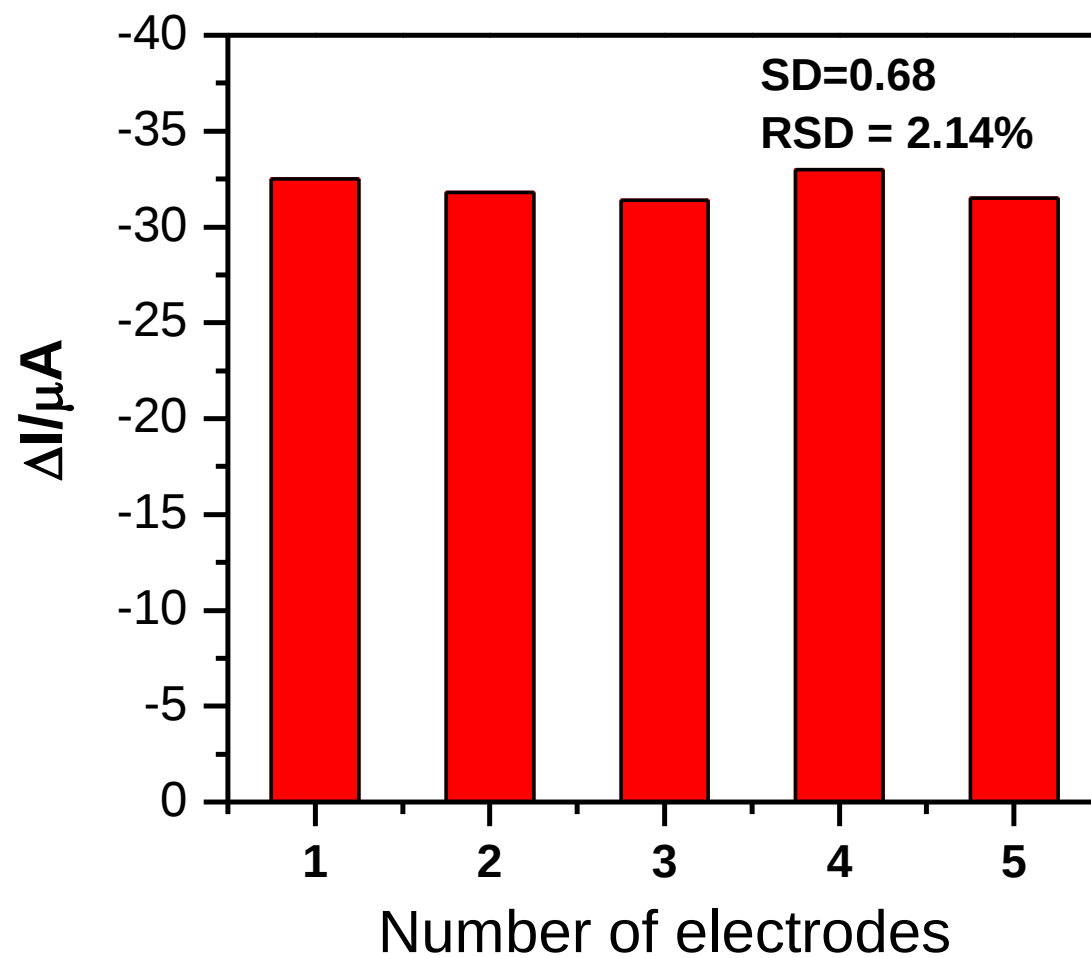


Figure S8. Reproducibility of MoS₂-GO/SPE electrode in 45 μM CAP

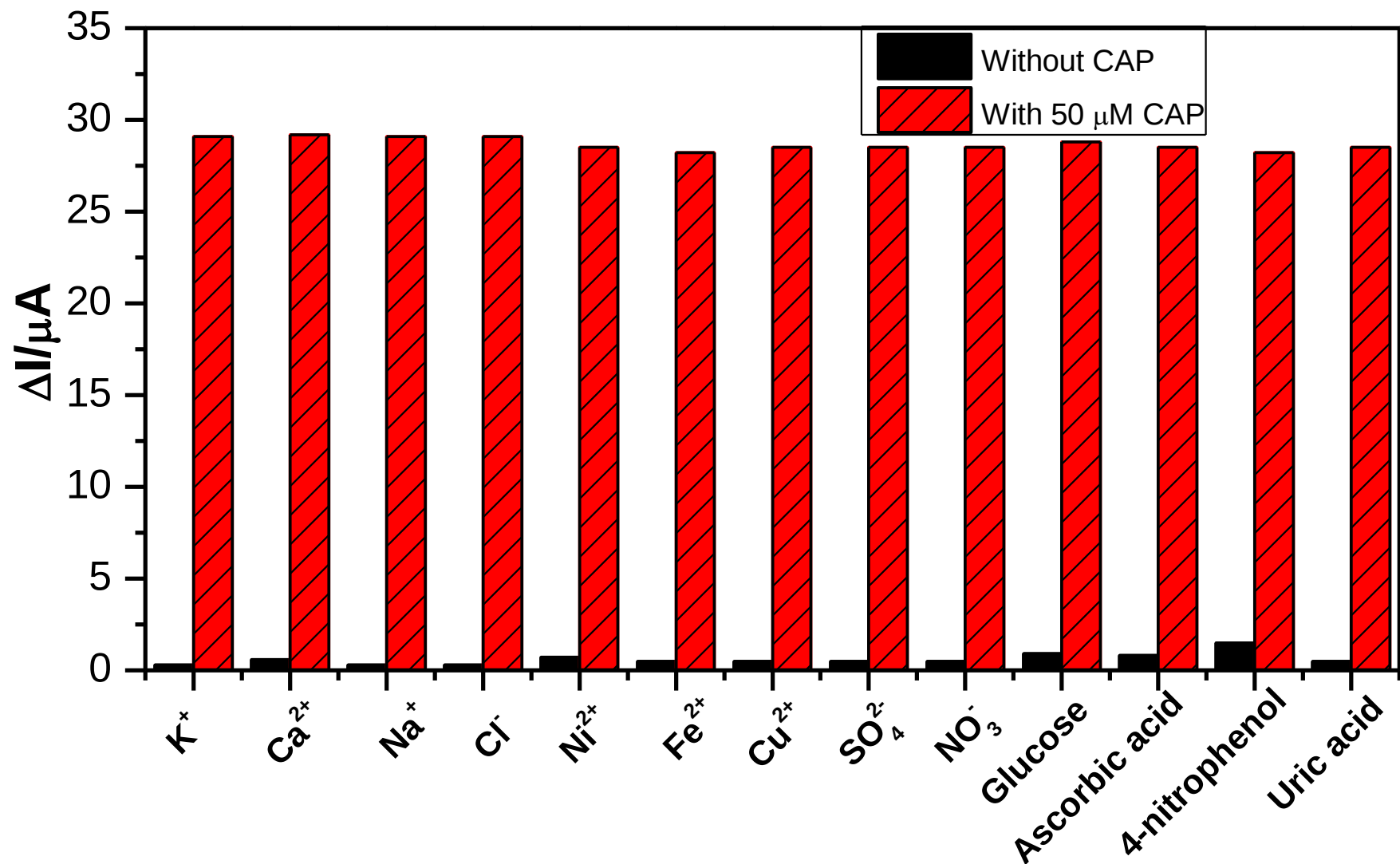


Figure S9. Effect of interference substances ($200 \mu mol L^{-1}$) on $50 \mu mol L^{-1}$ CAP in $0.1 M$ PBS (pH-5) using GO-MoS₂ (1:2) sample