

Support information

CTAB-assisted synthesis of ultrathin MoSe₂ nanosheets perpendicular to graphene for adsorption and photodegradation of organic dyes under visible light

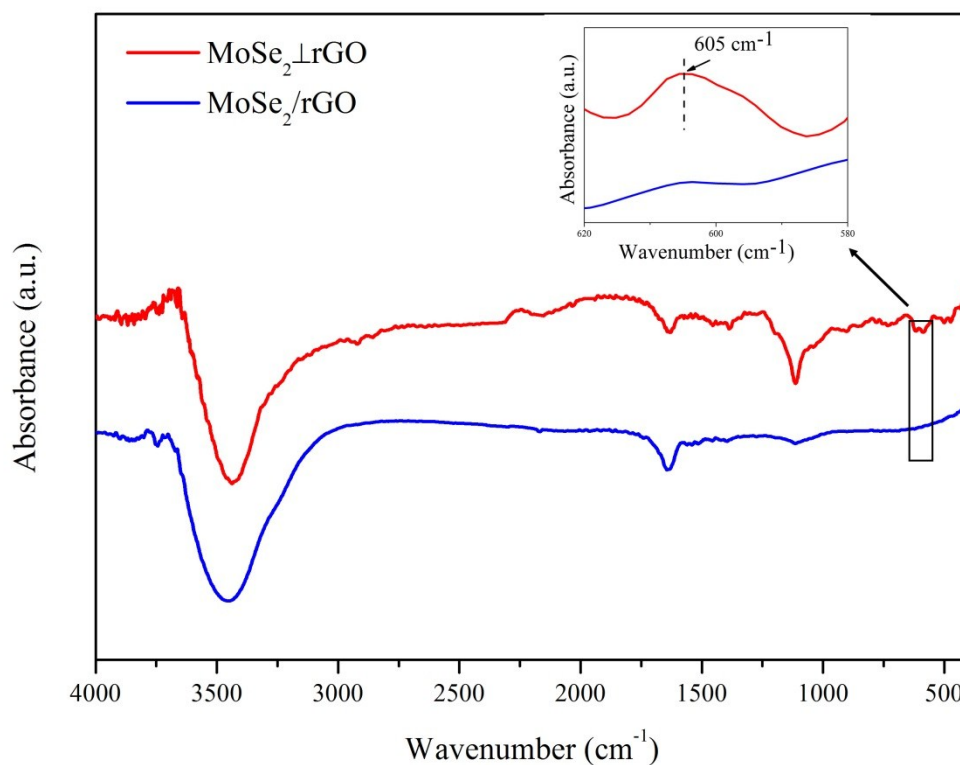


Fig. S1 FT-IR spectra of MoSe₂/rGO composites and MoSe₂⊥rGo heterostructures.

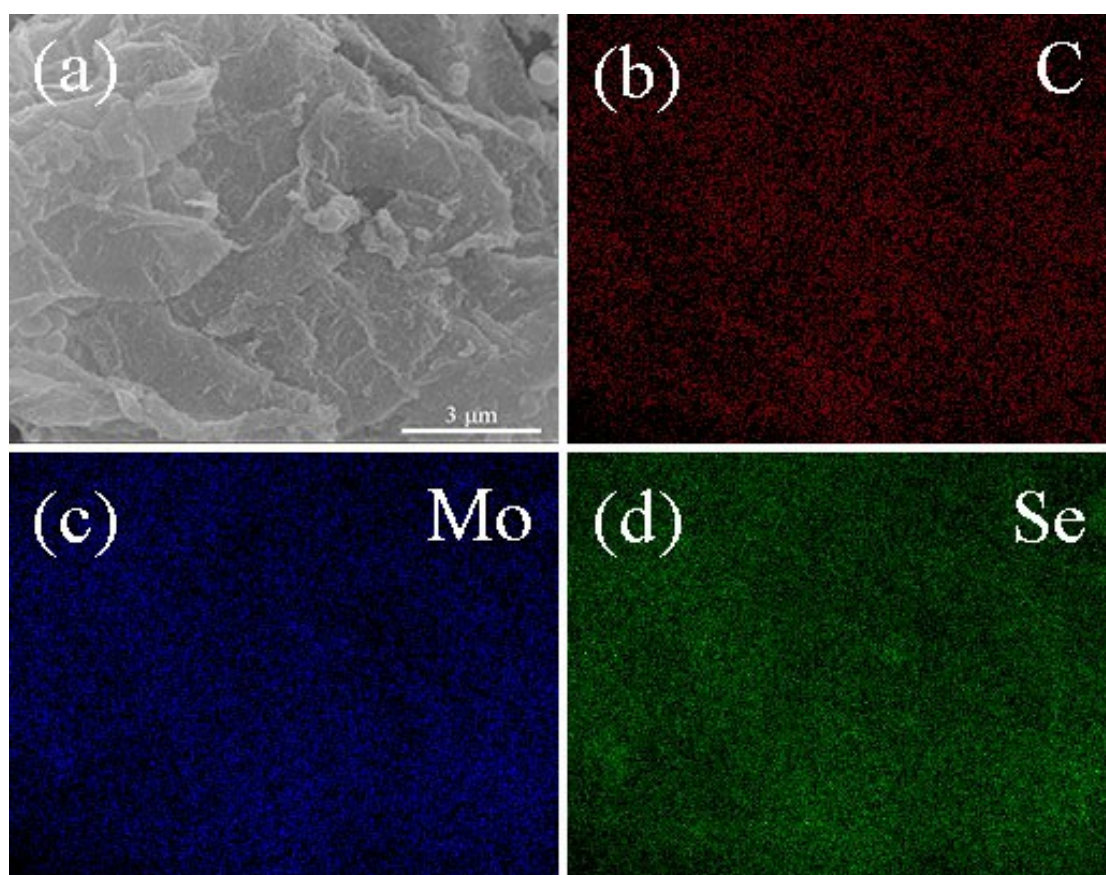


Fig. S2 A typical elemental mapping under SEM of MoSe₂/LrGO heterostructure.

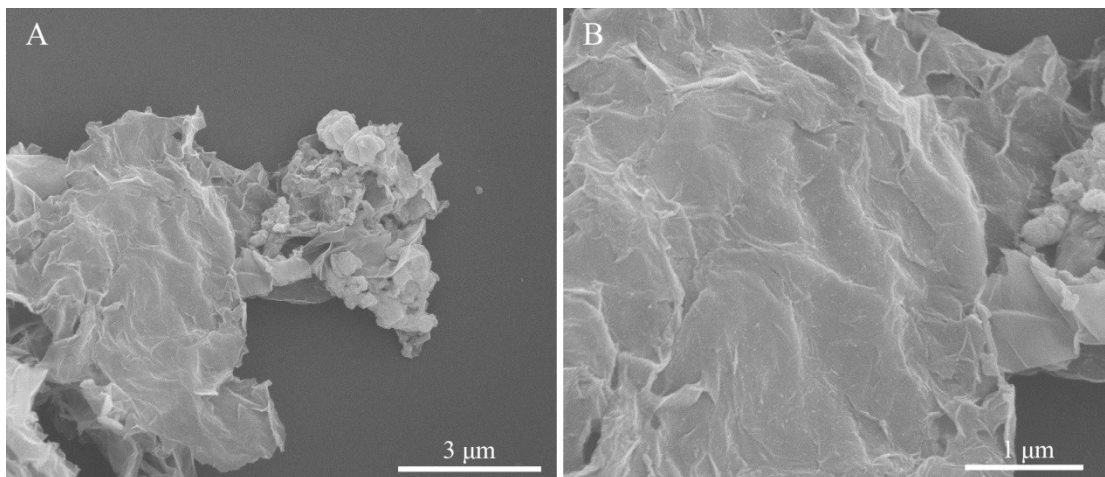


Fig. S3 SEM images of the sample with CTAB but in the absence of stirring.

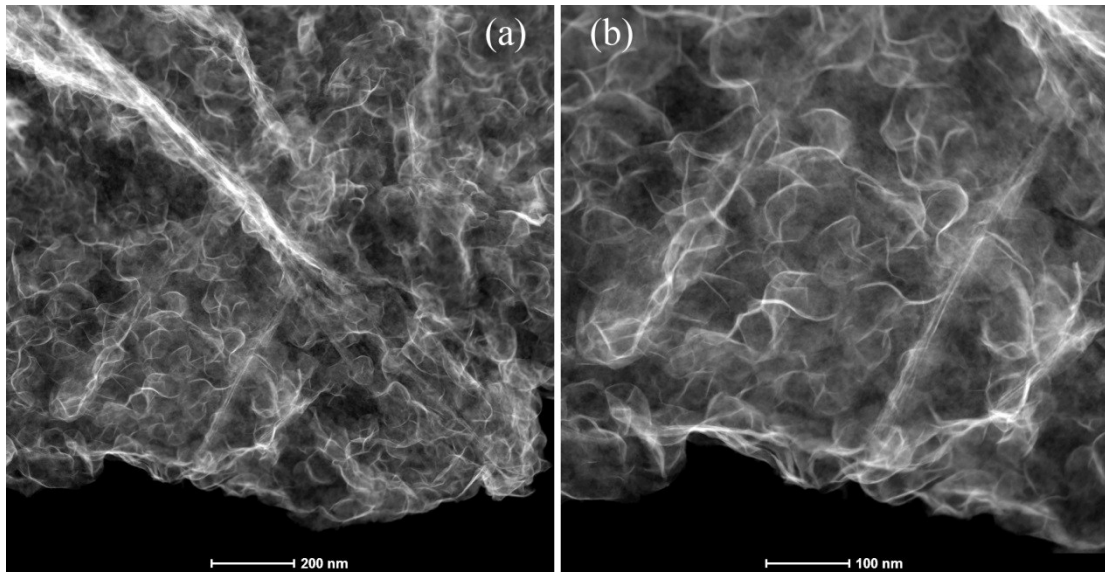


Fig. S4 STEM images of $\text{MoSe}_2 \perp \text{rGO}$ heterostructure with different magnifications.

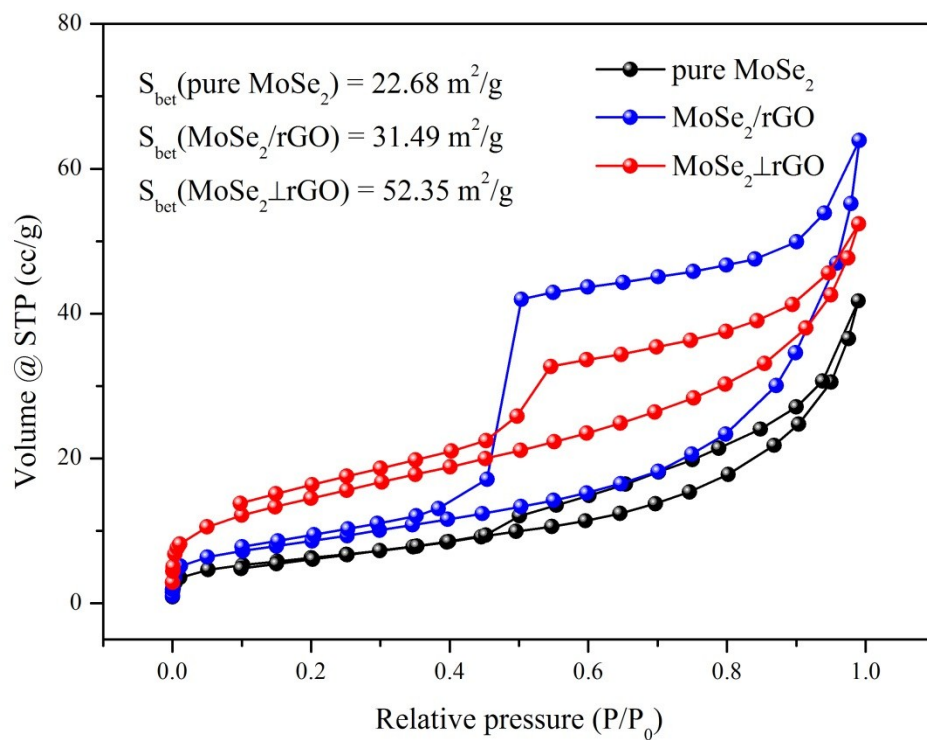


Fig. S5 The N₂ adsorption-desorption isotherms of pure MoSe₂, MoSe₂/rGO composites and MoSe₂⊥rGO heterostructure.

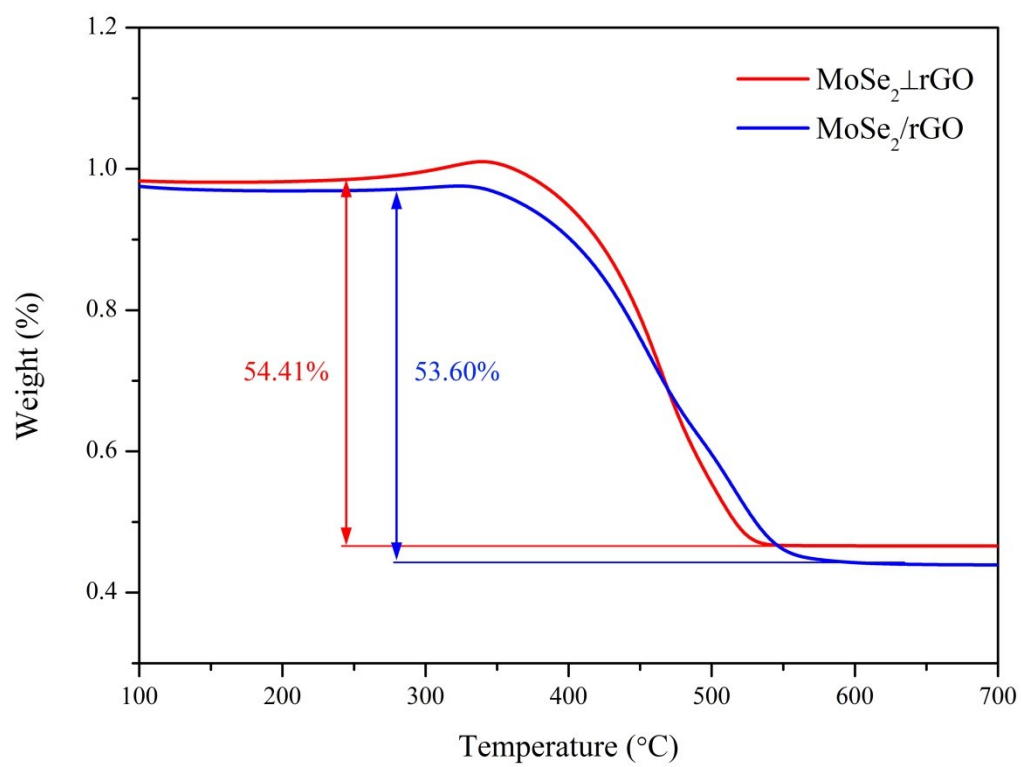


Fig. S6 TG curves of MoSe₂/rGO composites and MoSe₂-LrGO heterostructure.

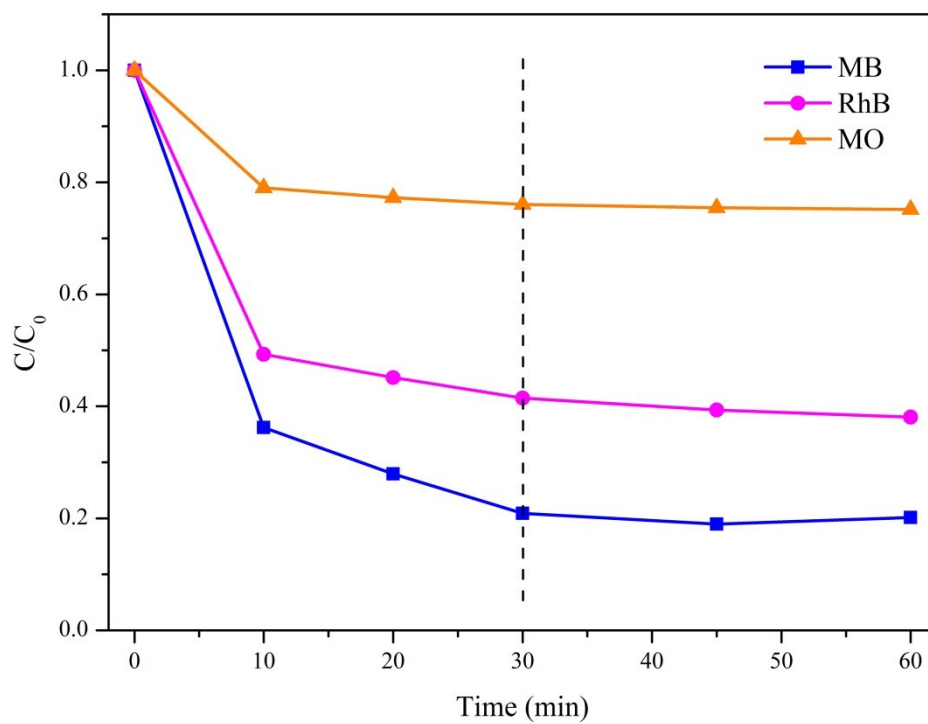


Fig. S7 Adsorption spectra of three organic dyes in darkness with MoSe₂/LrGO heterostructure.