

Supporting Information For

Green Synthesis of MoS₂ Nanoflowers for Efficient Degradation of Methylene Blue and Crystal Violet Dyes under Natural Sun Light Conditions

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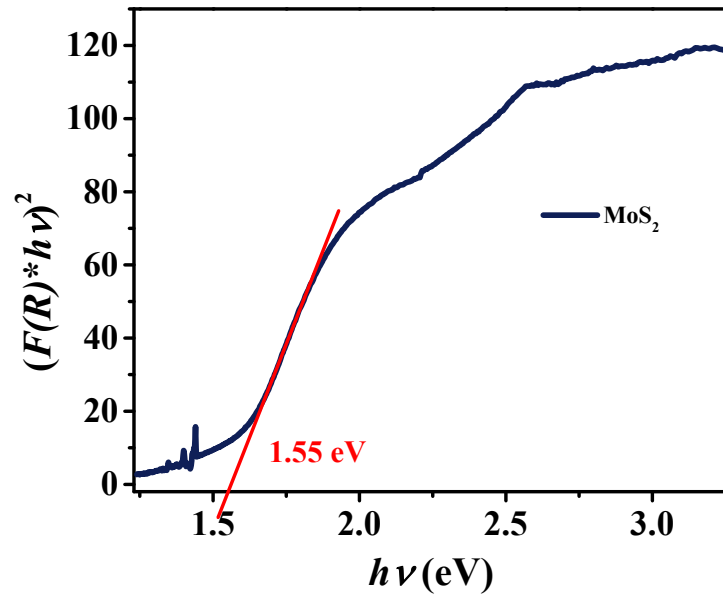


Figure S1. Bandgap of MoS₂ NFs.

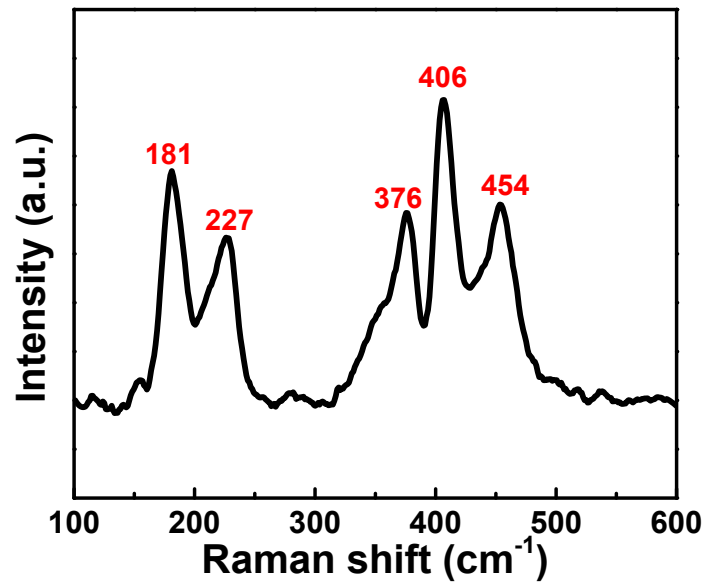


Figure S2. Raman spectrum of MoS₂ NFs.



Figure S3. Simple equipment for dye degradation under natural sunlight.

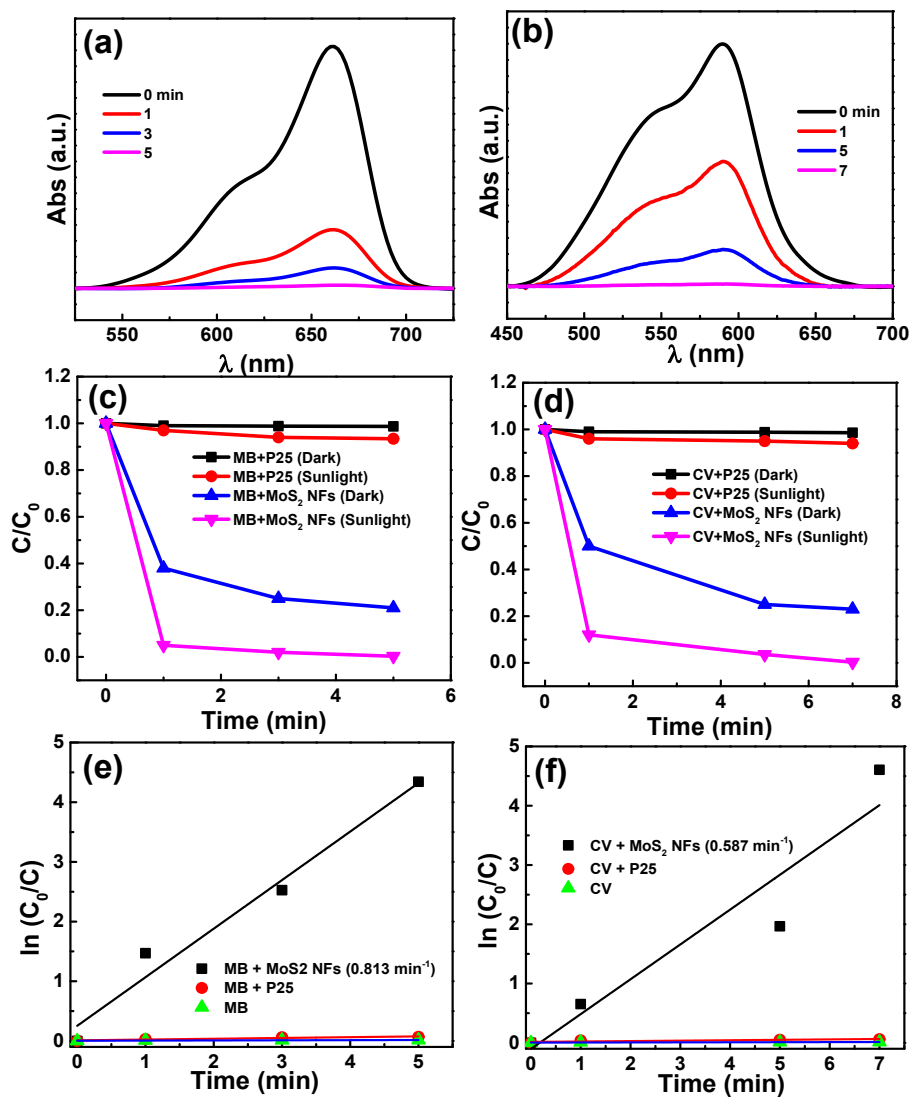


Figure S4. (a and b) UV-Visible spectra of 40 μM MB and CV in MoS_2 NFs under sun light. (c and d) Photodegradation rate of MB and CV in MoS_2 NFs in dark and sun light. (e and f) Plots of $\ln(C_0/C)$ versus irradiation time of MB and CV and the straight line should be considered as guide to the eye.

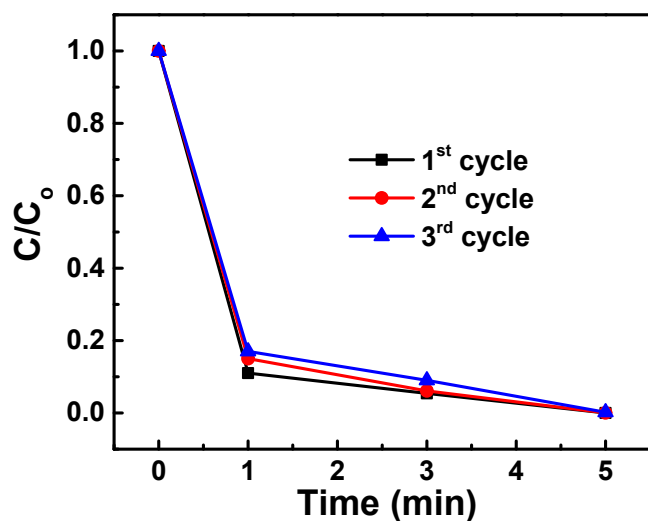


Figure S5. Repeatability tests for the degradation of 40 μM MB with MoS_2 NFs under solar light.

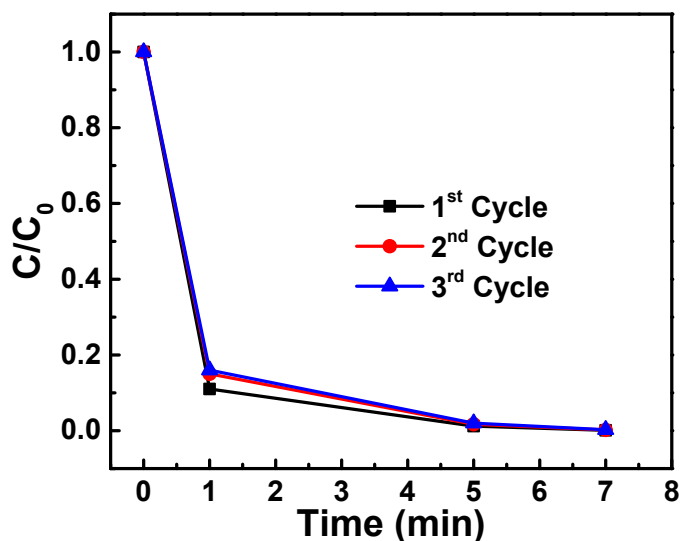
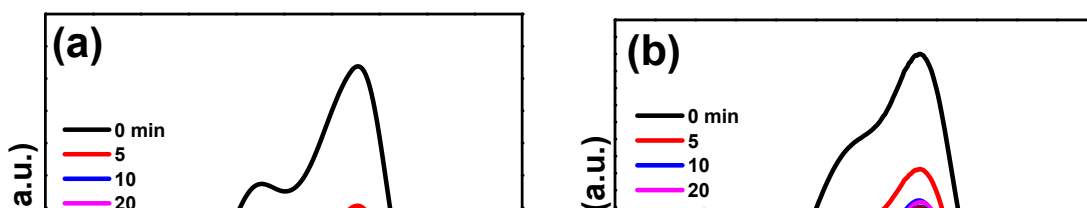


Figure S6. Repeatability tests for the degradation of 40 μM of CV with MoS_2 NFs under solar light.



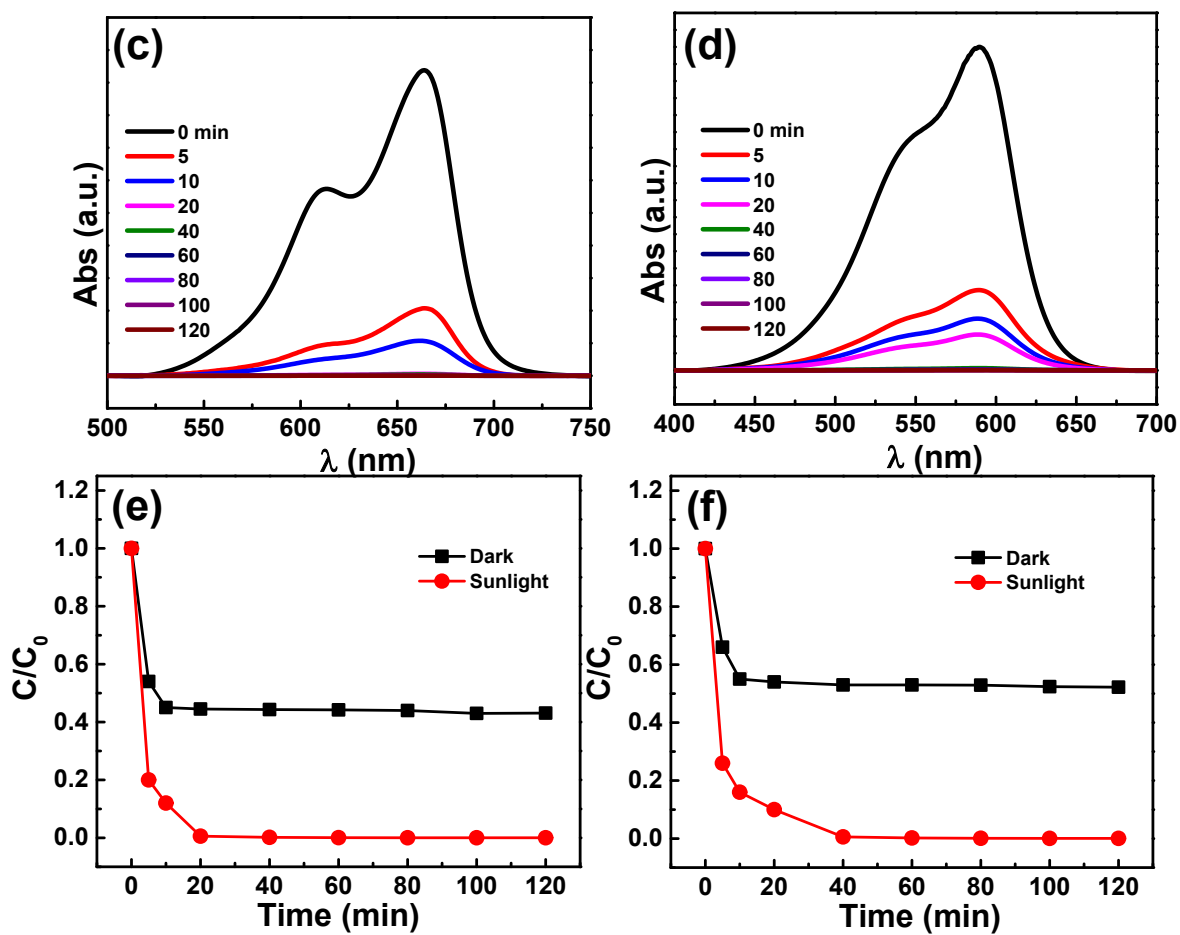


Figure S7. (a & b and c & d) UV-visible spectra of 100 μ M MB & CV in MoS₂ NFs under dark and natural sun light. (e and f) Degradation profiles of MB and CV in dark and sun light.

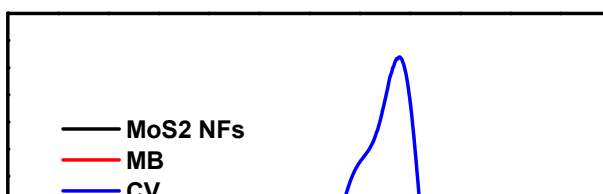


Figure S8. UV-Vis spectra of MB and CV before and after photocatalysis.