

## Supplementary Information

**Controlled exfoliation of monodispersed MoS<sub>2</sub> layered nanostructures by  
ligand-assisted hydrothermal approach for the realization of ultrafast degradation  
of organic pollutant**

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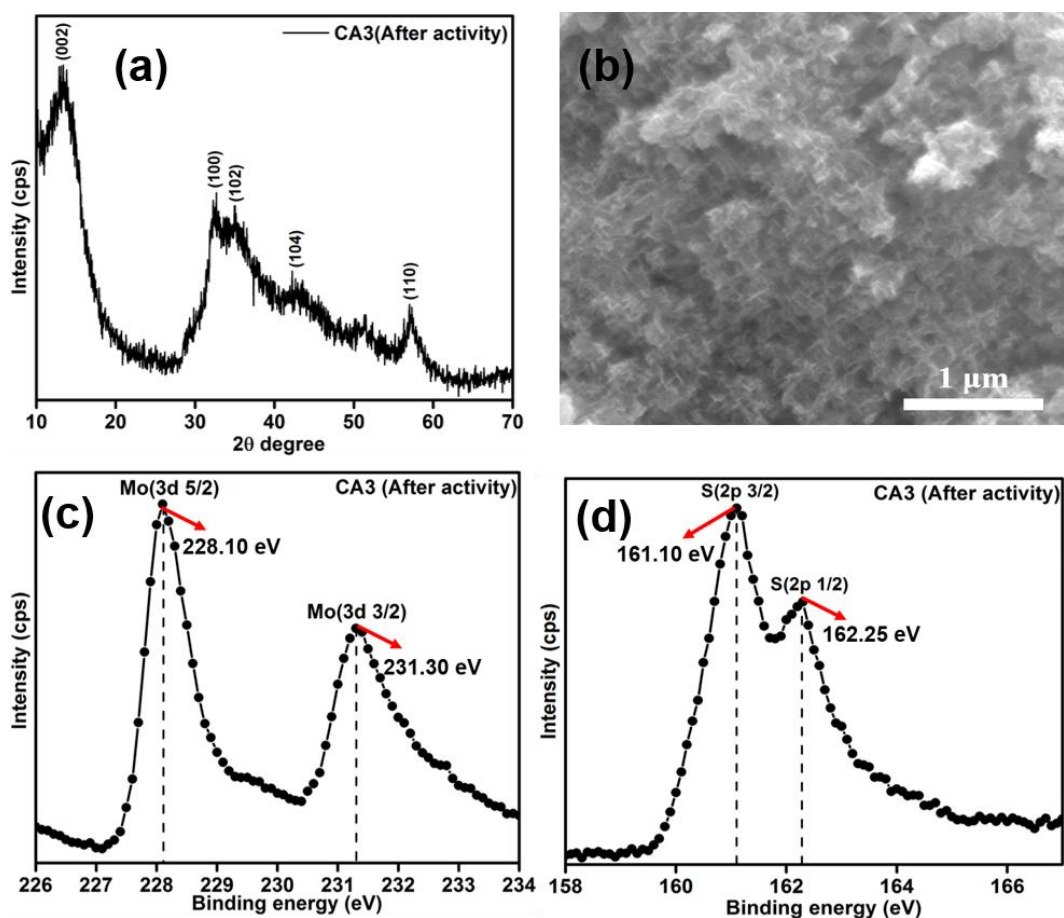


Fig. S1. XRD spectra (a), FESEM (c) and XPS spectra of (c) Mo 3d state, (d) S

2p state of sample CA3 after photocatalytic reaction.

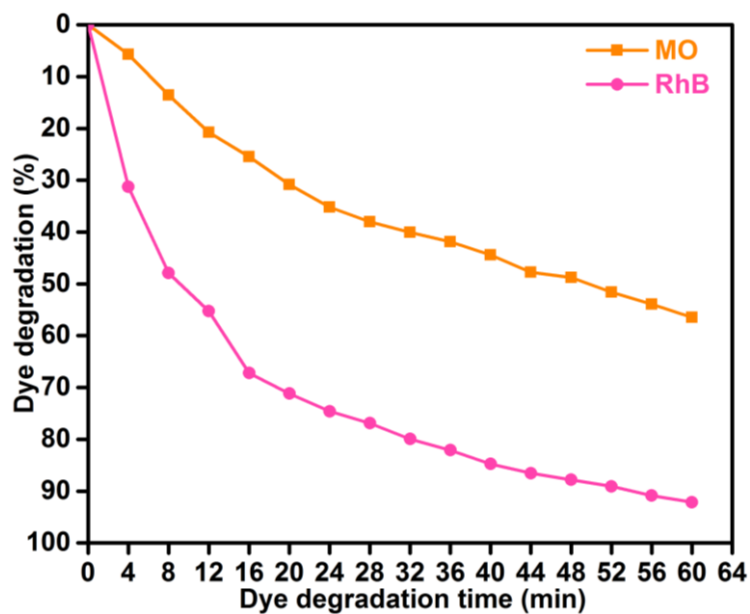


Fig. S2 Photocatalytic degradation of sample CA3 on MO and RhB