

## Supplementary Information

### Highly efficient visible light photocatalytic activity of MoS<sub>2</sub>-TiO<sub>2</sub> mixtures hybrid photocatalyst and functional properties

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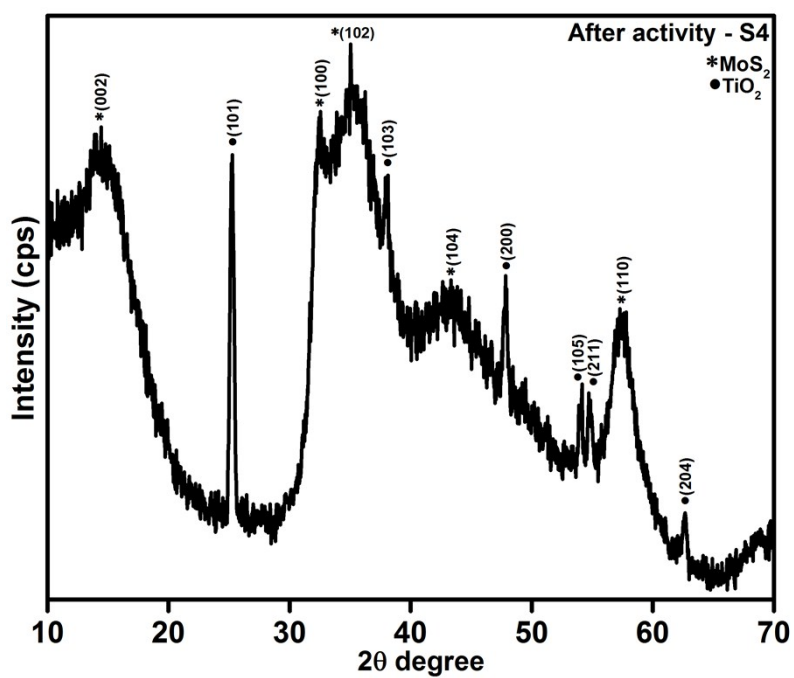


Fig. S1. XRD spectra of sample S4 after photocatalytic reaction.

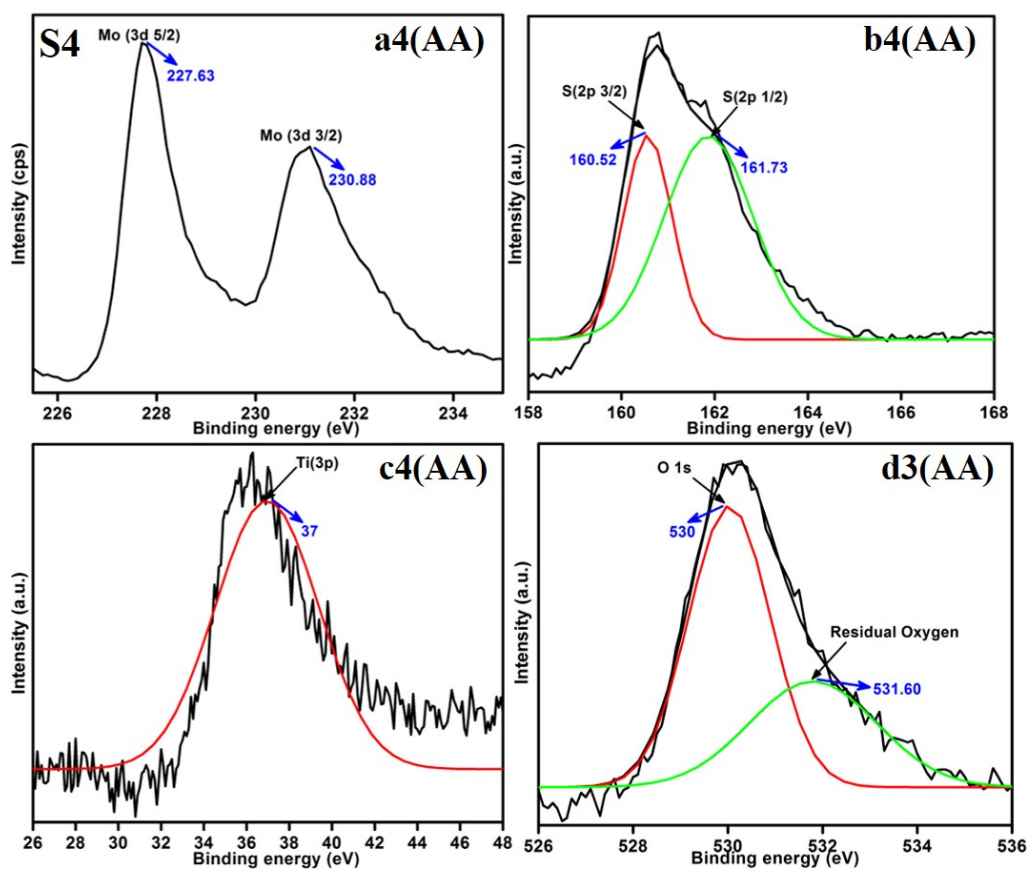


Fig. S2. XPS spectra of (a4) Mo 3d, (b4) S 2p, (c4) Ti 3p and (d3) O 1s state of sample S4 after photocatalytic reaction.