

Supporting Information

Charge Coupling Enhanced Photocatalytic Activity of **BaTiO₃/MoO₃ Heterostructures**

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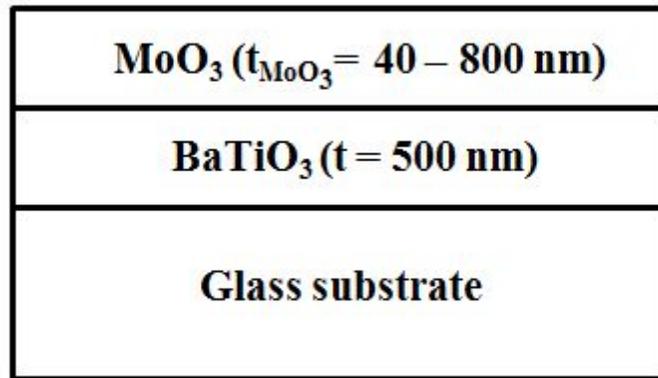


Figure S1. Schematic diagram of the BTO/MoO₃ heterostructure.

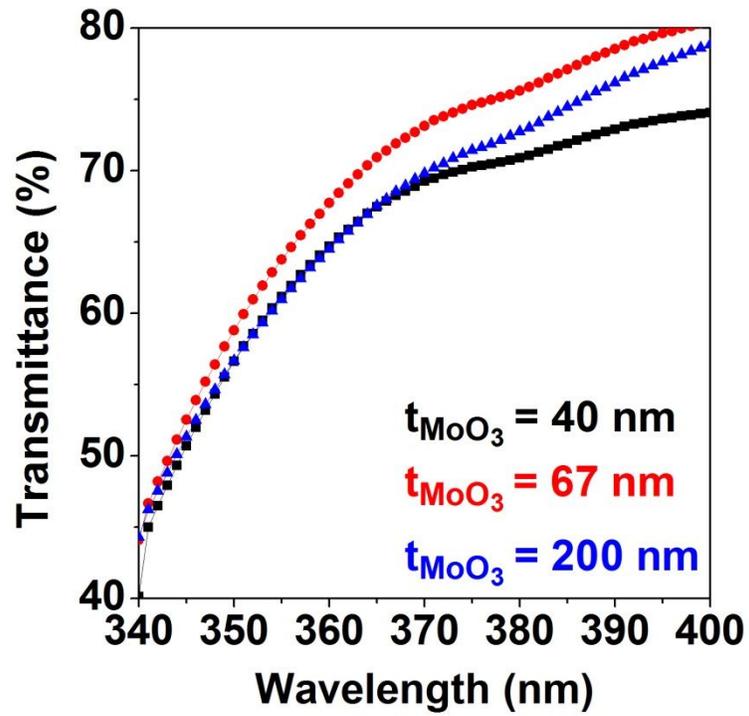


Figure S2. Shift in the fundamental absorption edge for heterostructures with $t_{\text{MoO}_3} = 40, 67$ and 200 nm.

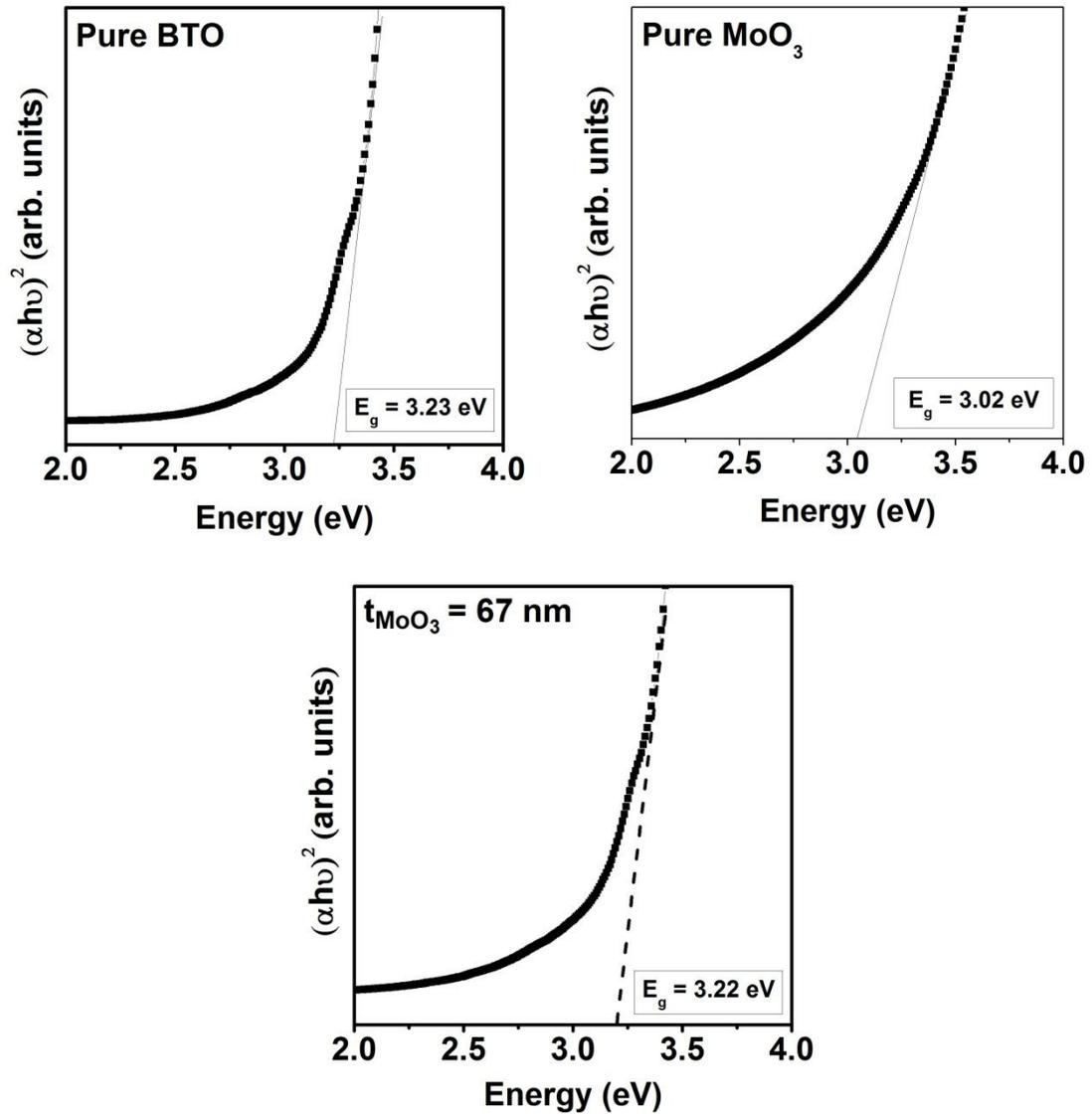


Figure S3. Tau plots for pure BTO and MoO_3 films and the BTO/ MoO_3 heterostructures with $t_{\text{MoO}_3} = 67 \text{ nm}$

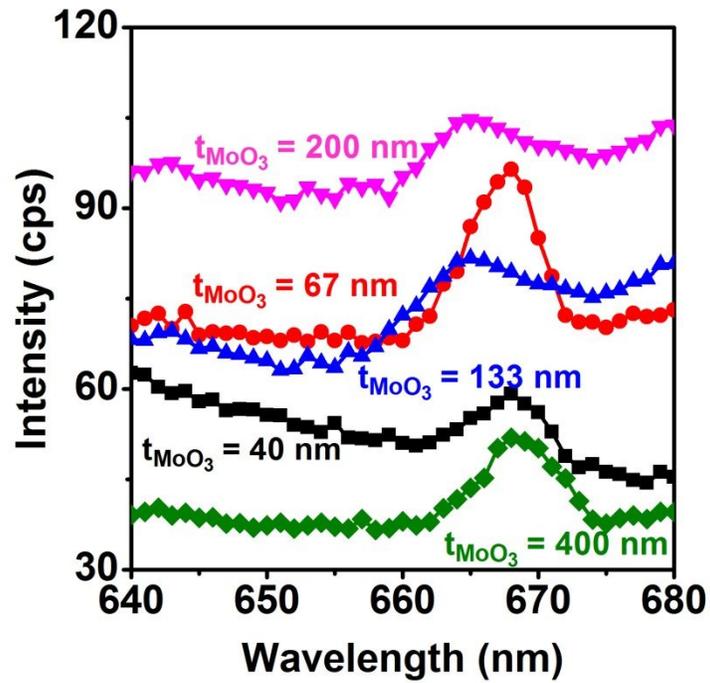


Figure S4. Variation in intensity of the peak at 668 nm for pure BTO film and BTO/MoO₃ heterostructures.

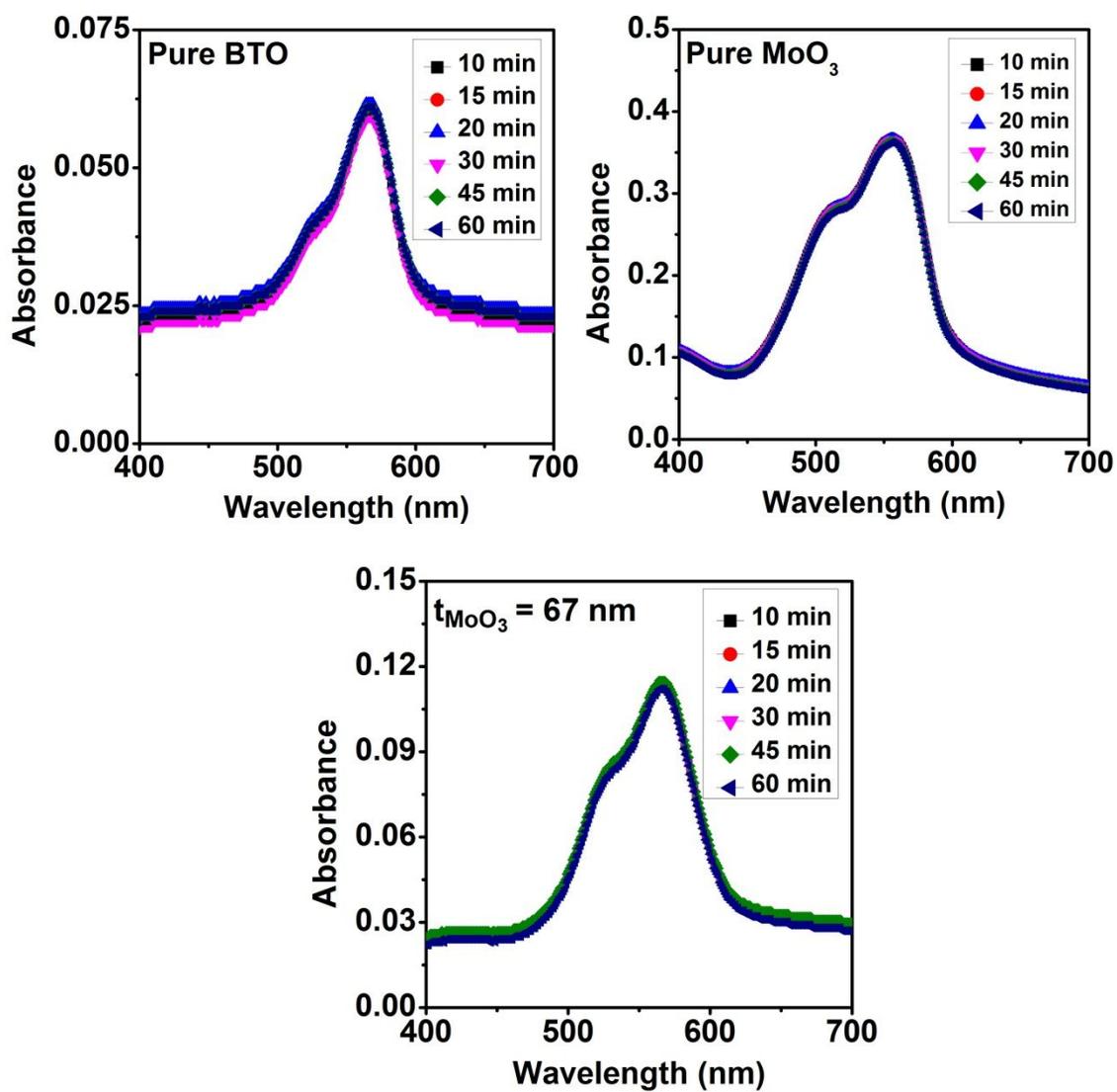


Figure S5. The absorbance curves of RhB adsorbed on BTO and MoO₃ films and the BTO/MoO₃ heterostructure with the time under dark conditions.

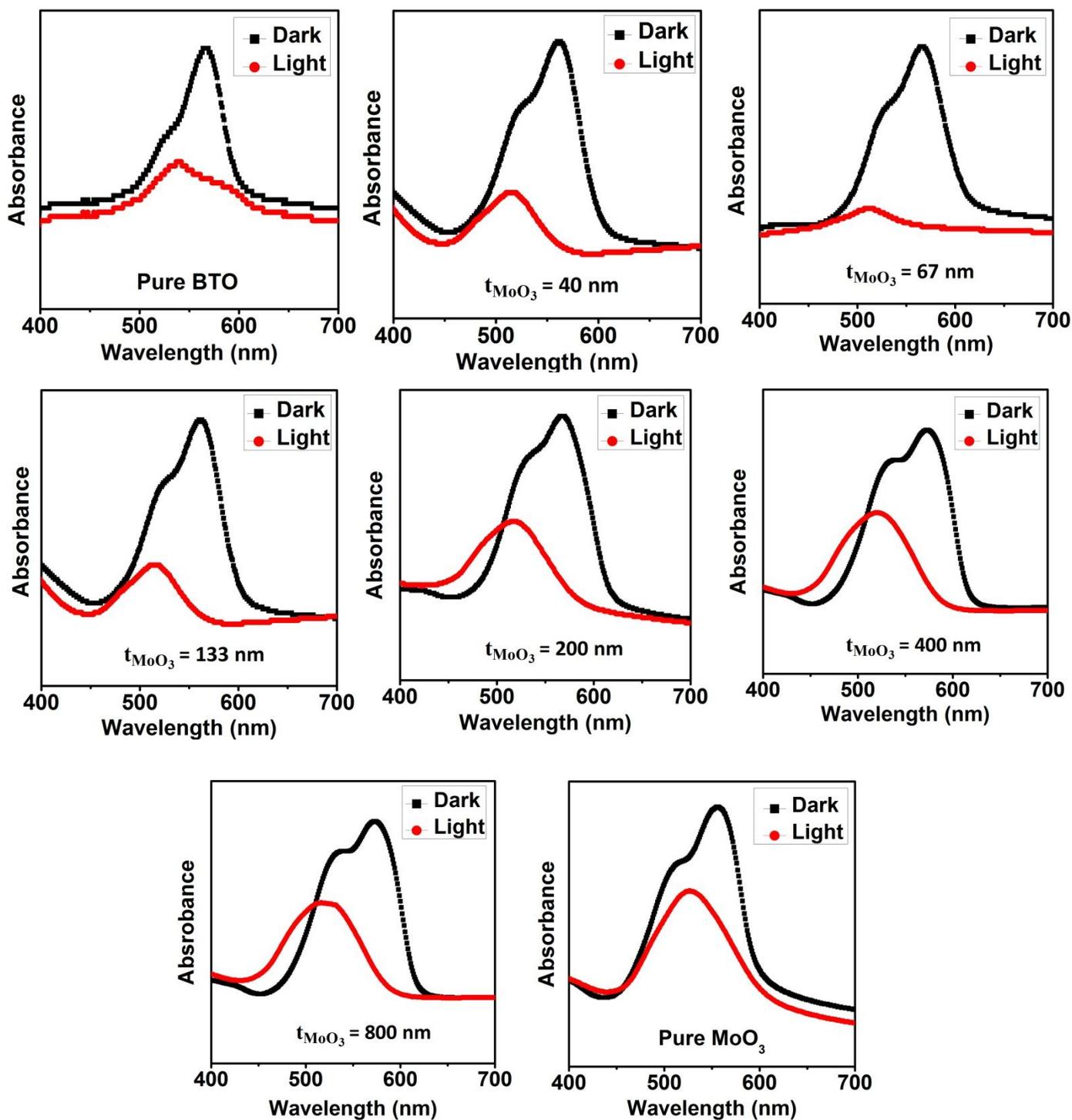


Figure S6. Photocatalytic activity of pure films and BTO/ MoO_3 heterostructures.