

A New Complementary Catalyst and Catalytic Mechanism: Ag₂MoO₄/Ag/AgBr/GO Heterostructure

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Table S1. The content of GO.

Sample Number	GO content(wt %)
BG 0	0
BG 1	1
BG 1.5	1.5
BG 2	2
BG 3	3

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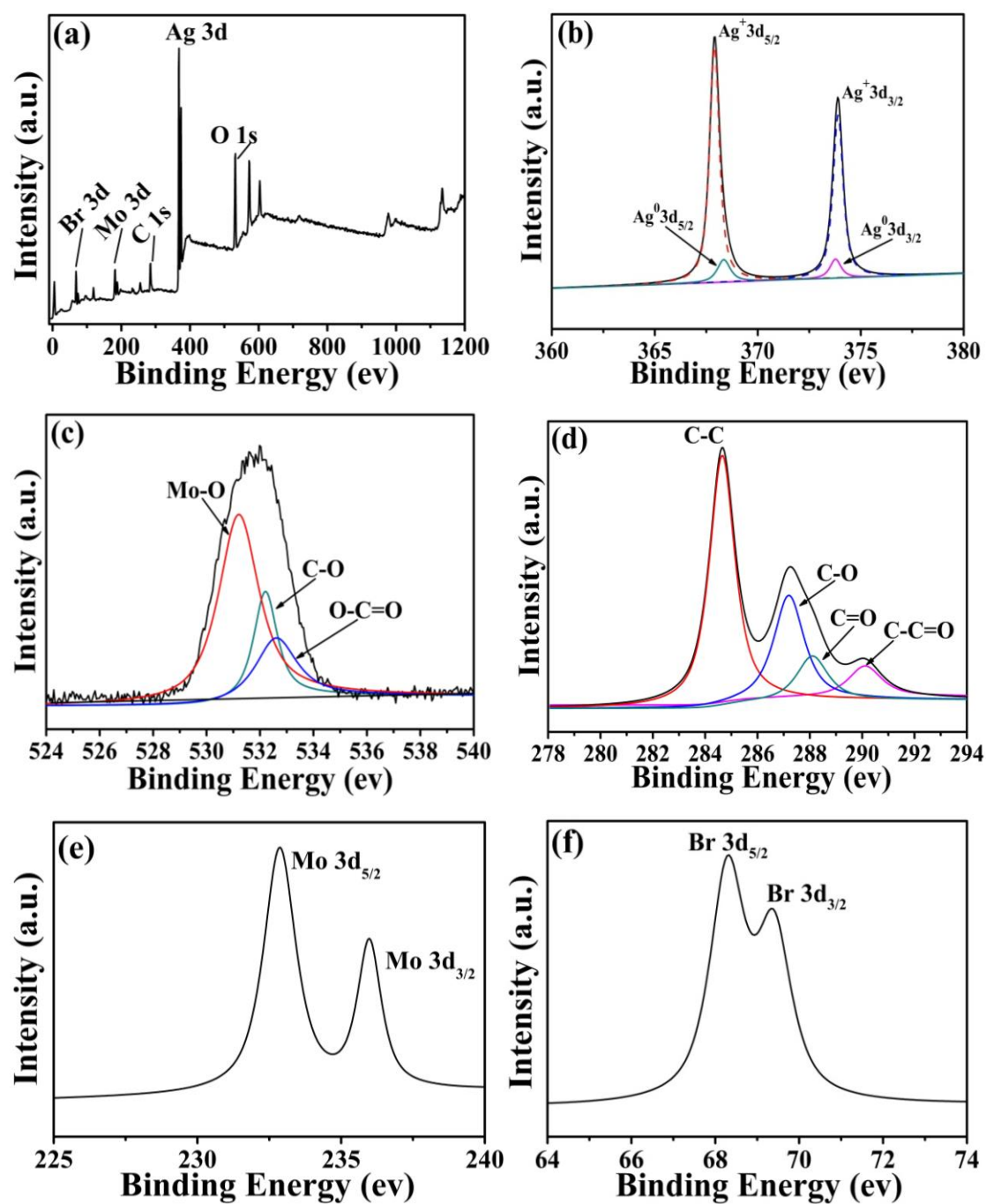


Figure S1. The XPS spectra of $\text{Ag}_2\text{MoO}_4/\text{Ag}/\text{AgBr}/\text{GO}$ heterostructure (a) Survey XPS, (b) Ag $3d_{5/2}$ and $3d_{3/2}$, (c) O 1s, (d) C 1s and (e) Mo 3d and (f) Br 3d

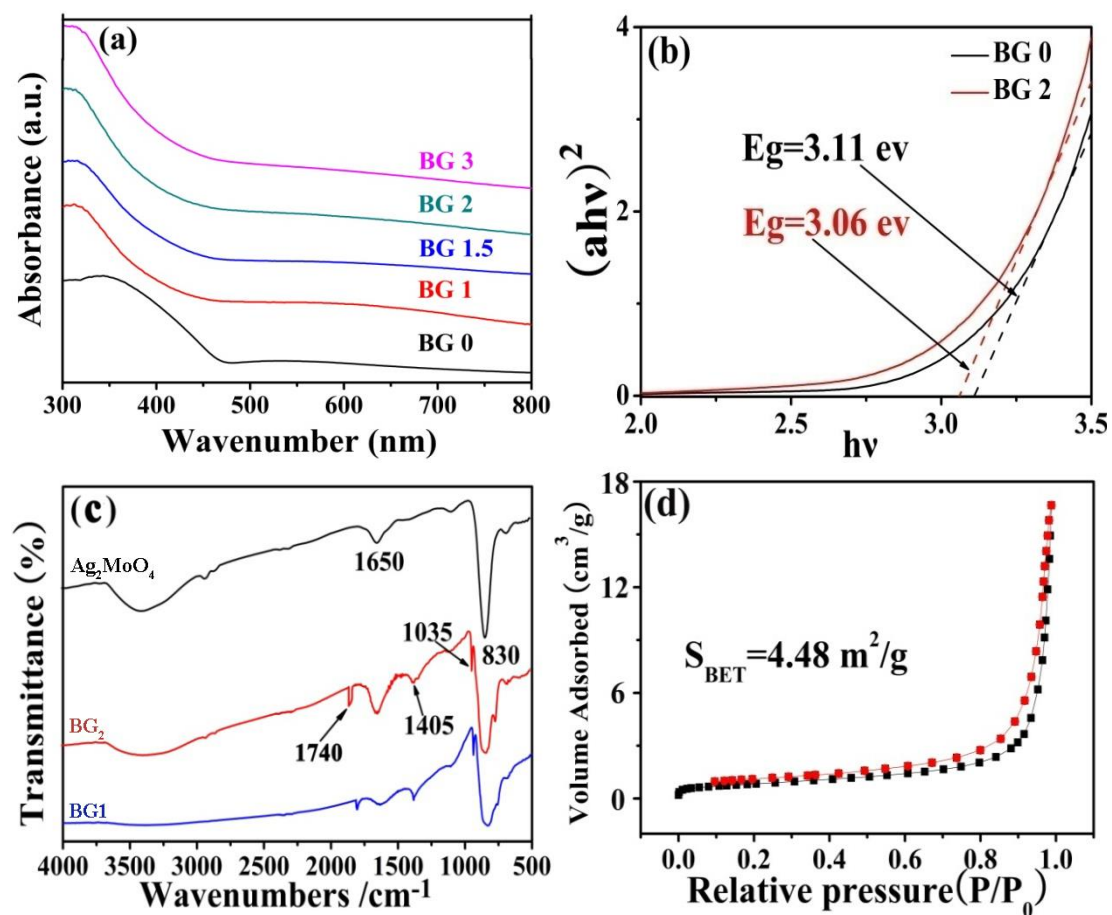


Figure S2. (a) UV-Vis spectrum and (b) *Kubelka-Munk* plot, (c) FT-IR spectra and (d) BET

spectrum of $\text{Ag}_2\text{MoO}_4/\text{Ag}/\text{AgBr}/\text{GO}$ heterostructure

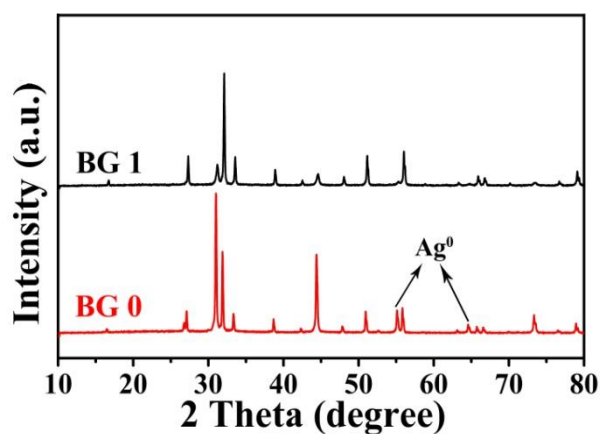


Figure S3. XRD spectra of BG 0 and BG 2 after recycled four times.

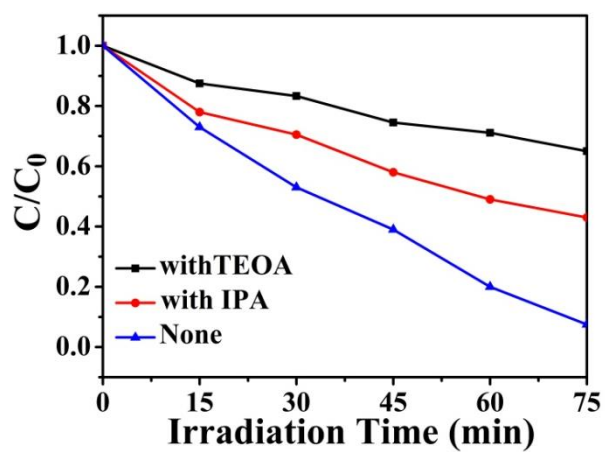


Figure S4. Reactive specie trapping experiments of $\text{Ag}_2\text{MoO}_4/\text{Ag}/\text{AgBr}/\text{GO}$ heterostructure.

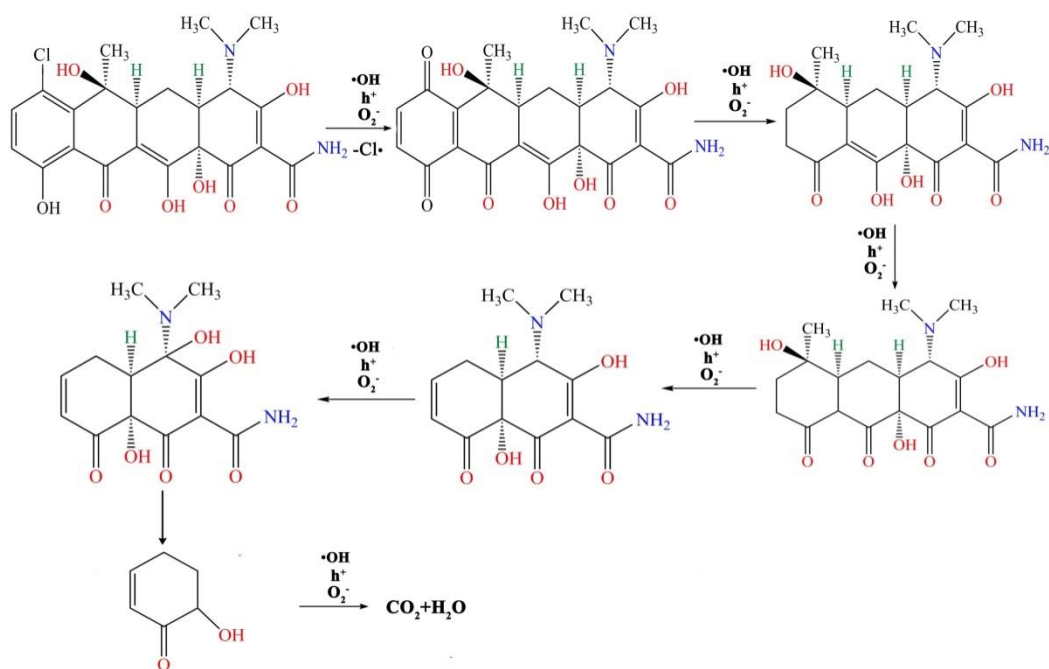


Figure S5. Pathway of the intermediate products for TC-HCl photodegradation.