

## ***Supporting Information***

### **Polyaniline decorated Bi<sub>2</sub>MoO<sub>6</sub> nanosheets with effective interfacial charge transfer as photocatalysts and optical limiters**

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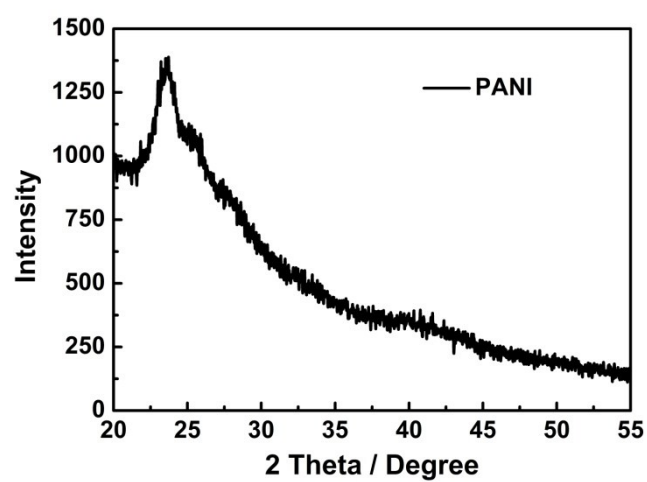


Figure S1. XRD pattern of PANI.

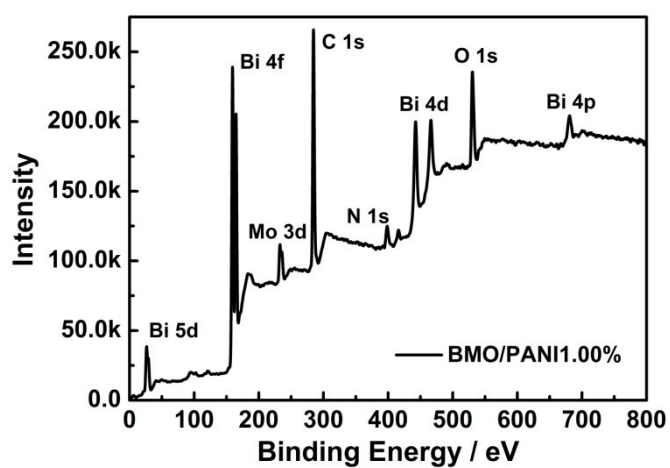


Figure S2. XPS survey scan spectrum of BMO/PANI1.00%.

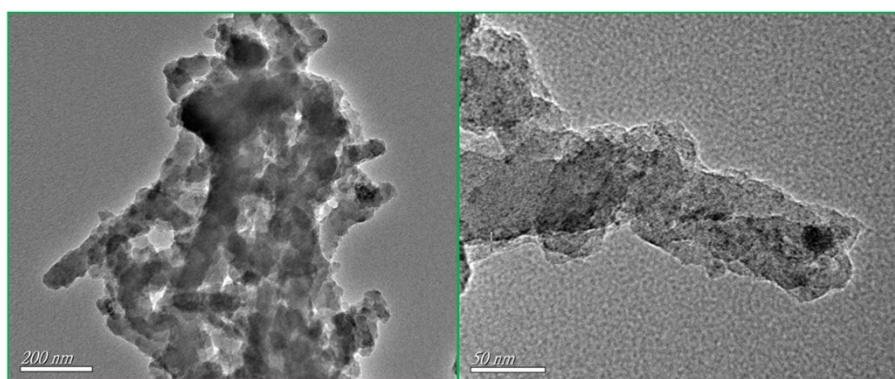


Figure S3. TEM images of PANI.

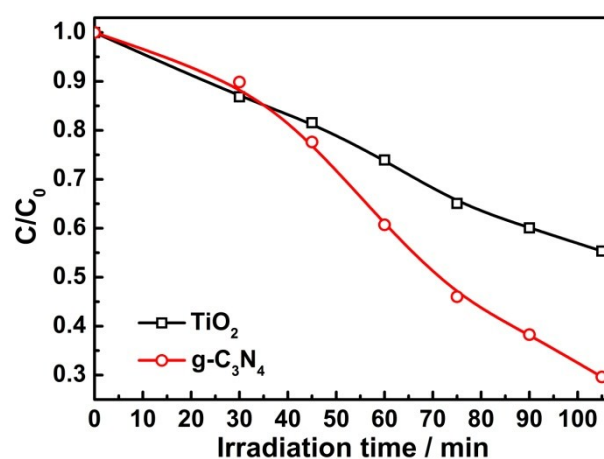


Figure S4. Photocatalytic performances of TiO<sub>2</sub> and g-C<sub>3</sub>N<sub>4</sub> for the photocatalytic decolorization of RhB aqueous solutions.

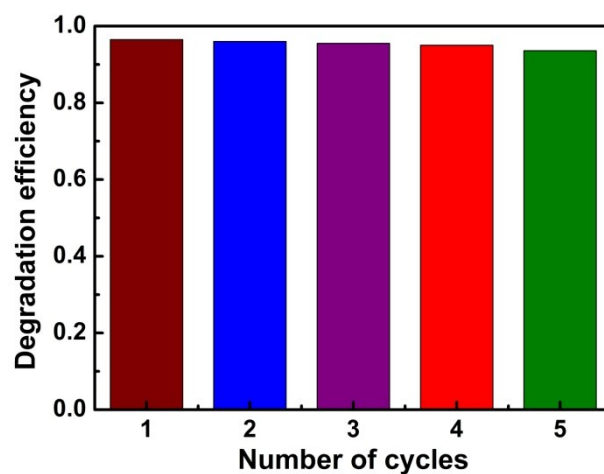


Figure S5. Cycling experiments on the photocatalytic degradation of RhB in the presence of BMO/PANI1.00%.

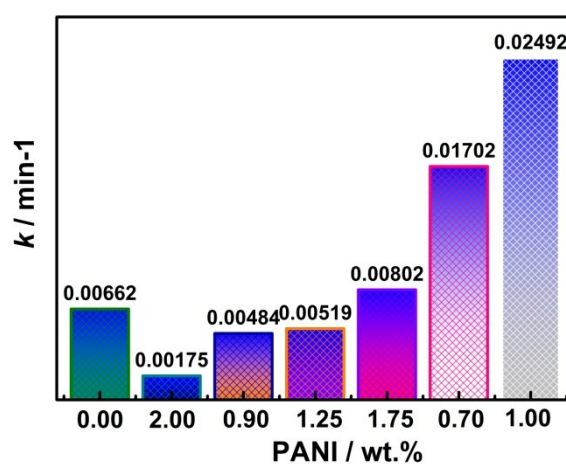


Figure S6. The kinetic constants of the as-prepared samples for the degradation of RhB.

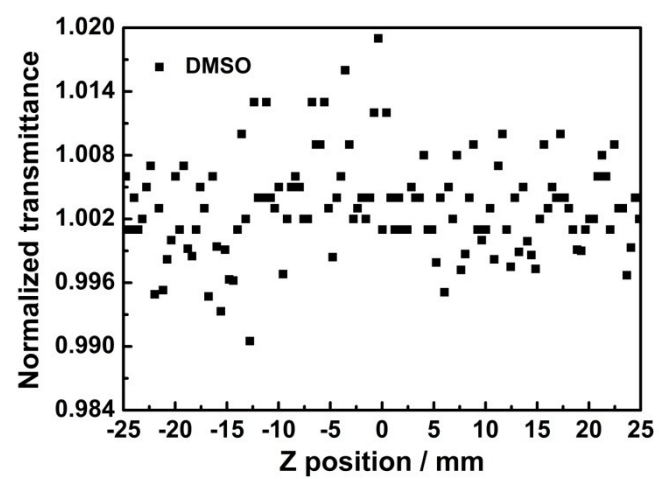


Figure S7. Open aperture Z-scan curve of the solvent DMSO.