

**Construction of TiO₂/BiOCl heterojunction for enhanced solar photocatalytic
oxidation of nitric oxide**

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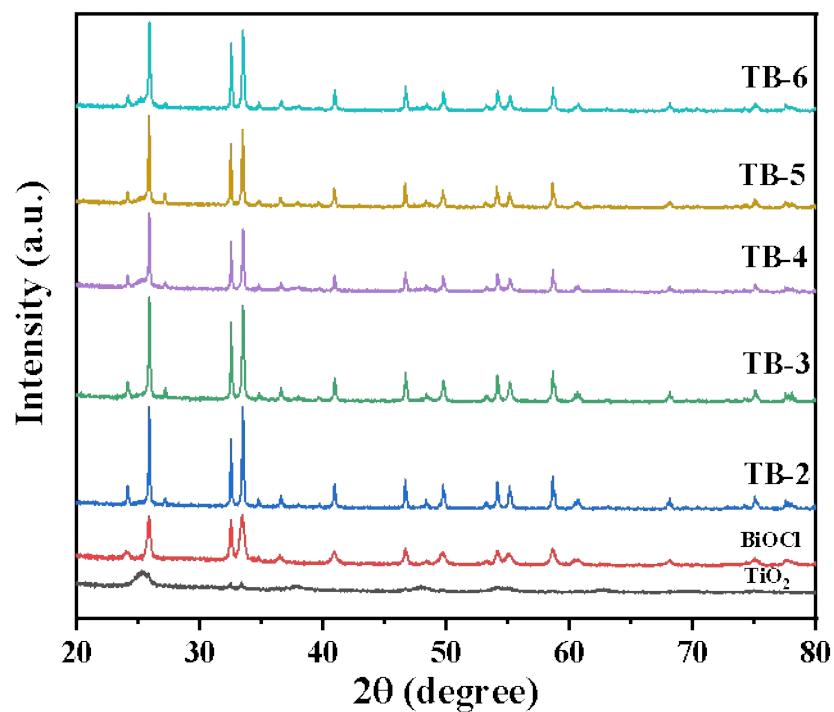


Figure S1. XRD patterns of BiOCl, TiO₂, TB-2, TB-3, TB-4, TB-5 and TB-6.

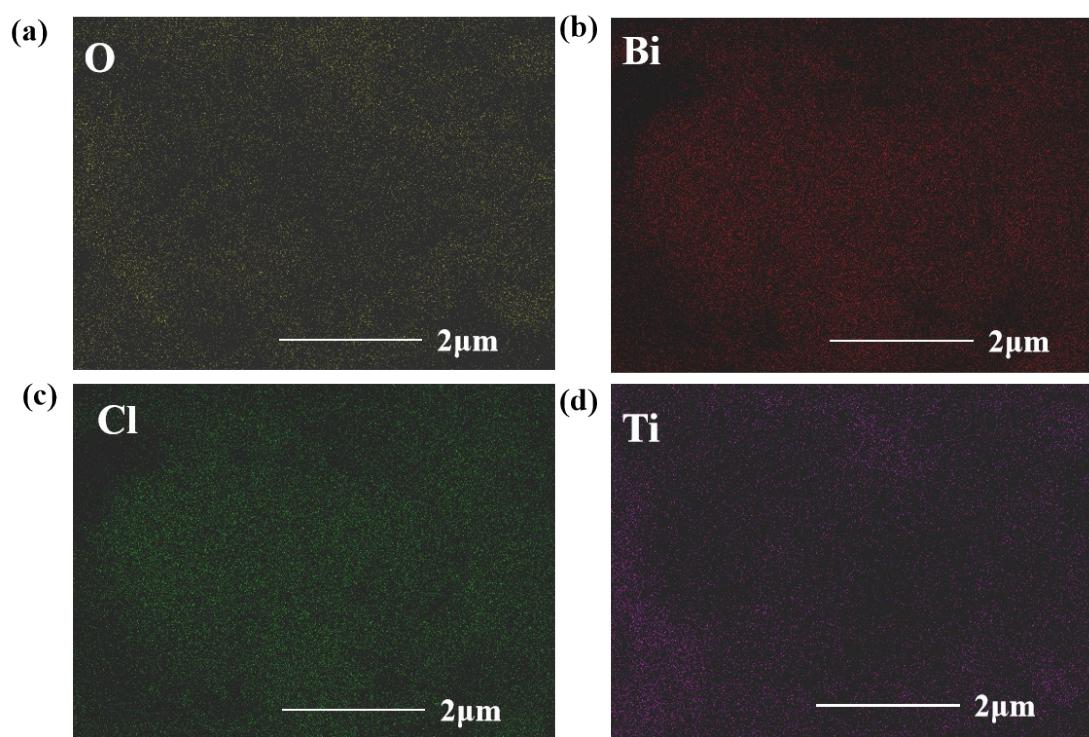


Figure S2. EDS mapping images for O element (a), Bi element (b), Cl element (c), and Ti element (d).

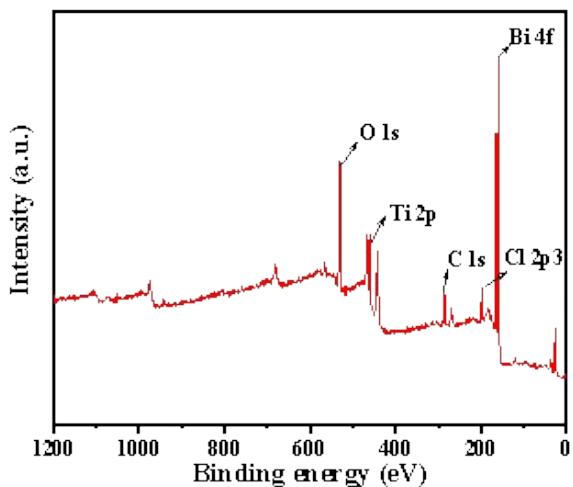


Figure S3. XPS survey spectra of TB-4.

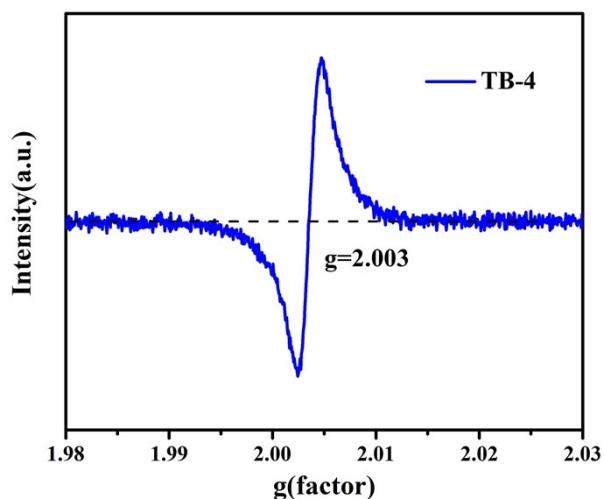


Figure S4. EPR spectrum of TB-4.

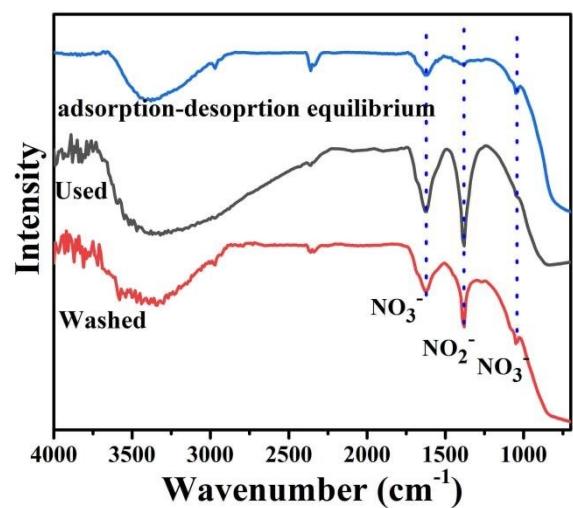


Figure S5. FT-IR spectra of TB-4 before and after photocatalytic reaction.

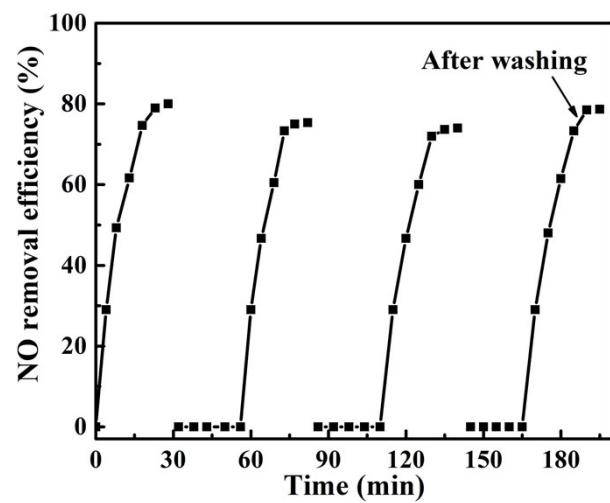


Fig. S6. NO removal activity of the TB-4 composite in three consecutive cycles and after washing.

Table S1. Photocatalytic removal of NO under different system.

Sample	NO removal efficiency (%)	Reference
OVs-BiOCl	36.4	Reference ¹
BiOCl/CuBi ₂ O ₄	40	Reference ²
g-C ₃ N _{4-x} /BiOCl/WO _{2.92}	68.7	Reference ³
BiOCl/Bi ₂ WO ₆	31	Reference ⁴
BiOCl-OVs/g-C ₃ N ₄	66.5	Reference ⁵
N-BiOCl	60	Reference ⁶
TiO ₂ -C ₃ N ₅	67.1	Reference ⁷
TiO ₂ -B-400	70.1	Reference ⁸
OV-TiO ₂ -325	45	Reference ⁹
Bi/BiOI/black TiO ₂	70	Reference ¹⁰
TiO₂/BiOCl	83	This work

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