# Supporting Information

## The construction of a Direct Z-Scheme $Bi_2WO_6/NH_2$-UiO-66 nanocomposite as an efficient visible-light-driven photocatalyst for NO removal

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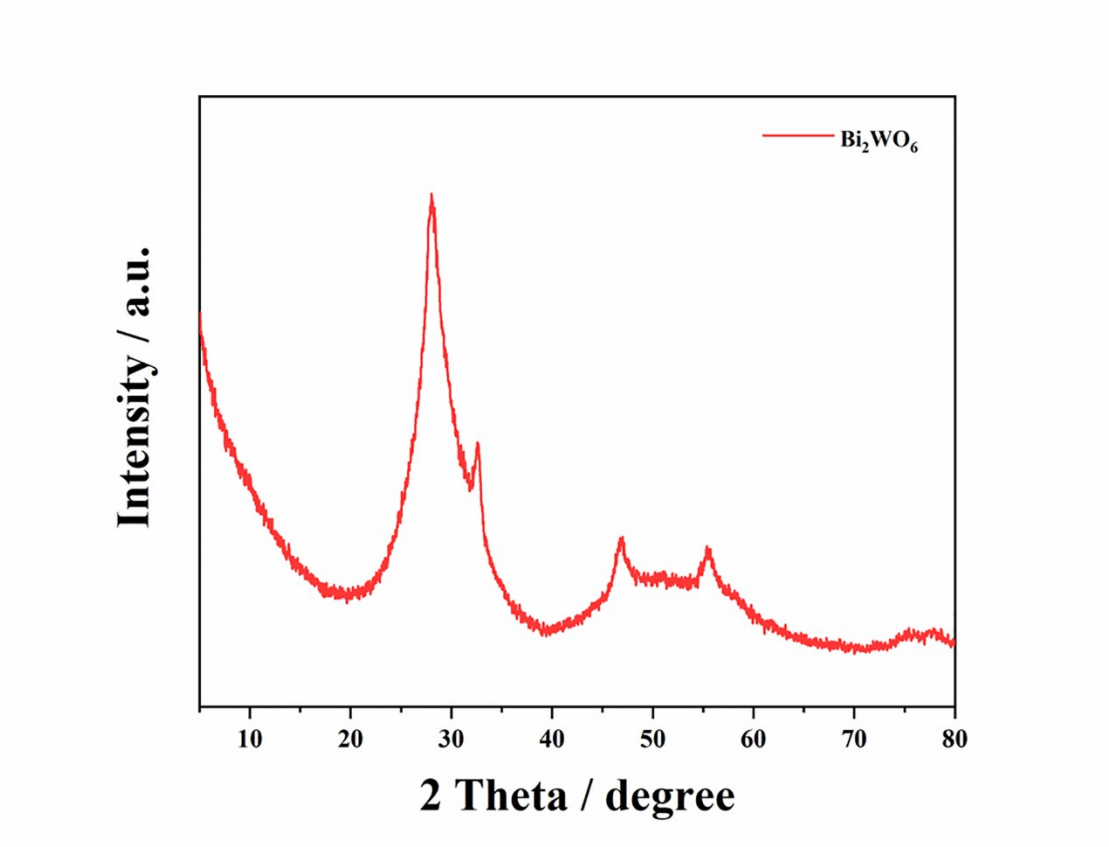


**Figure S1.** XRD patterns for pristine $Bi_2WO_6$.

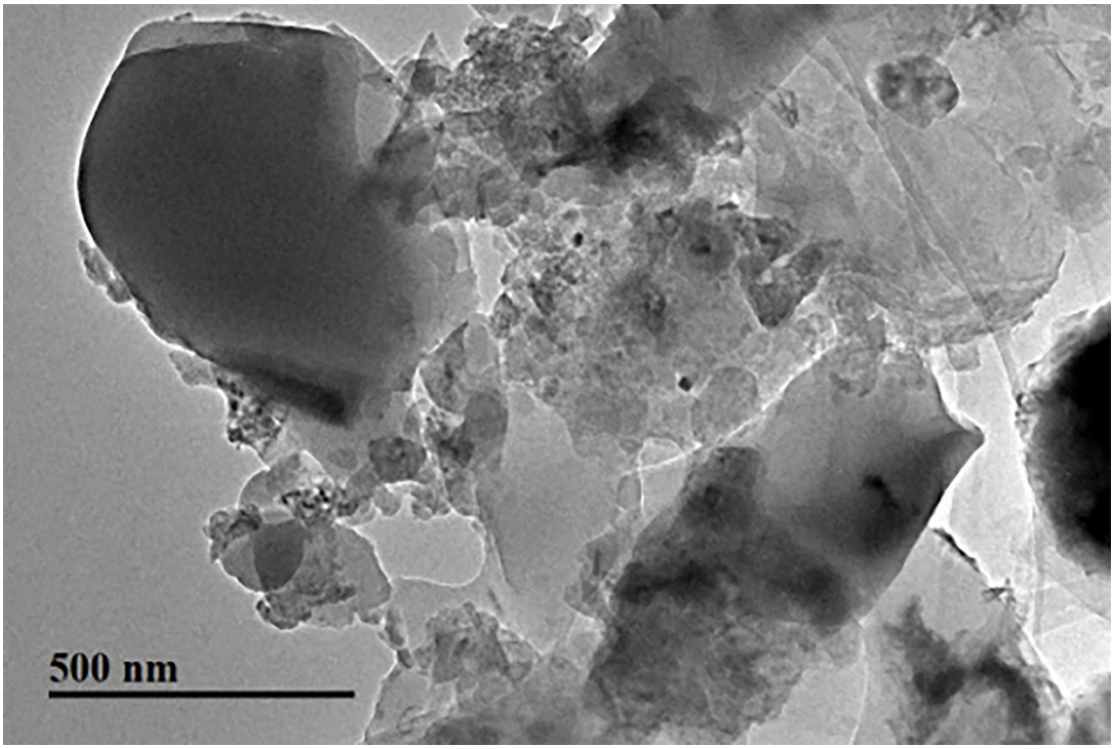


**Figure S2.** TEM image for pristine $Bi_2WO_6$.

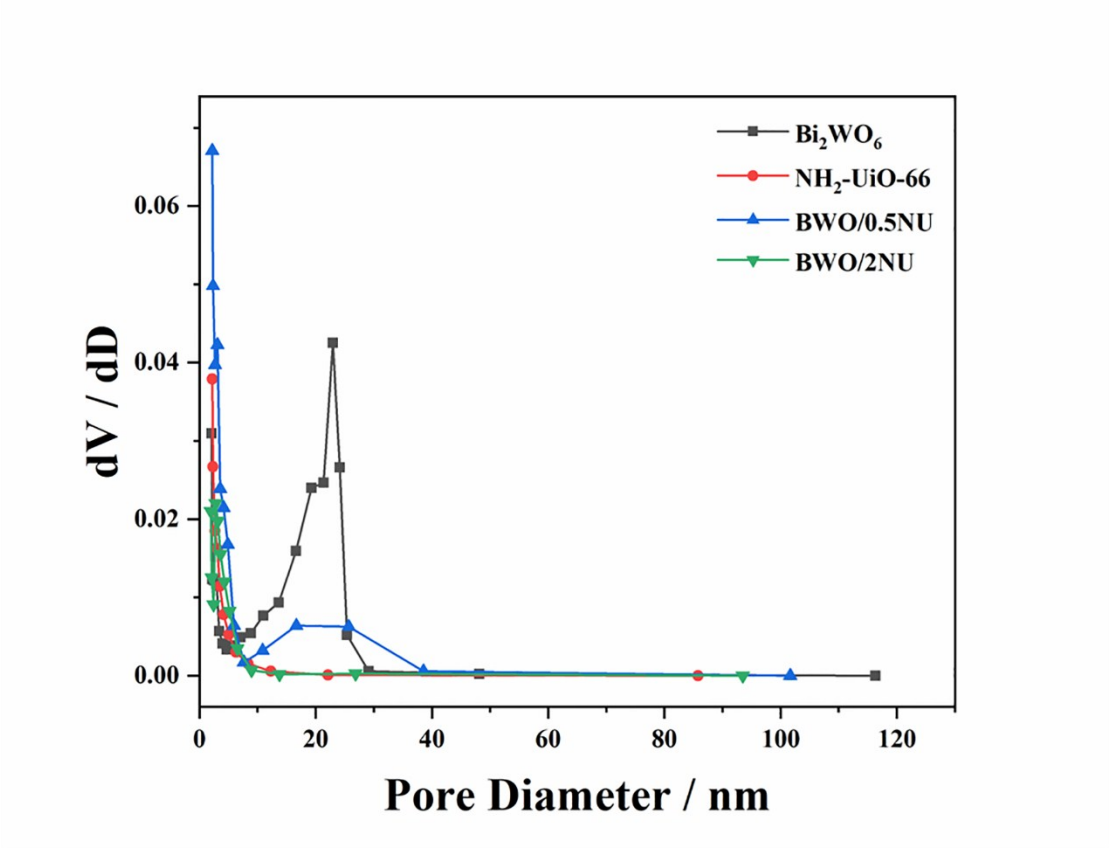


**Figure S3.** Pore size distributions for $Bi_2WO_6$, $NH_2$-UiO-66, BWO/0.5NU and BWO/2NU.

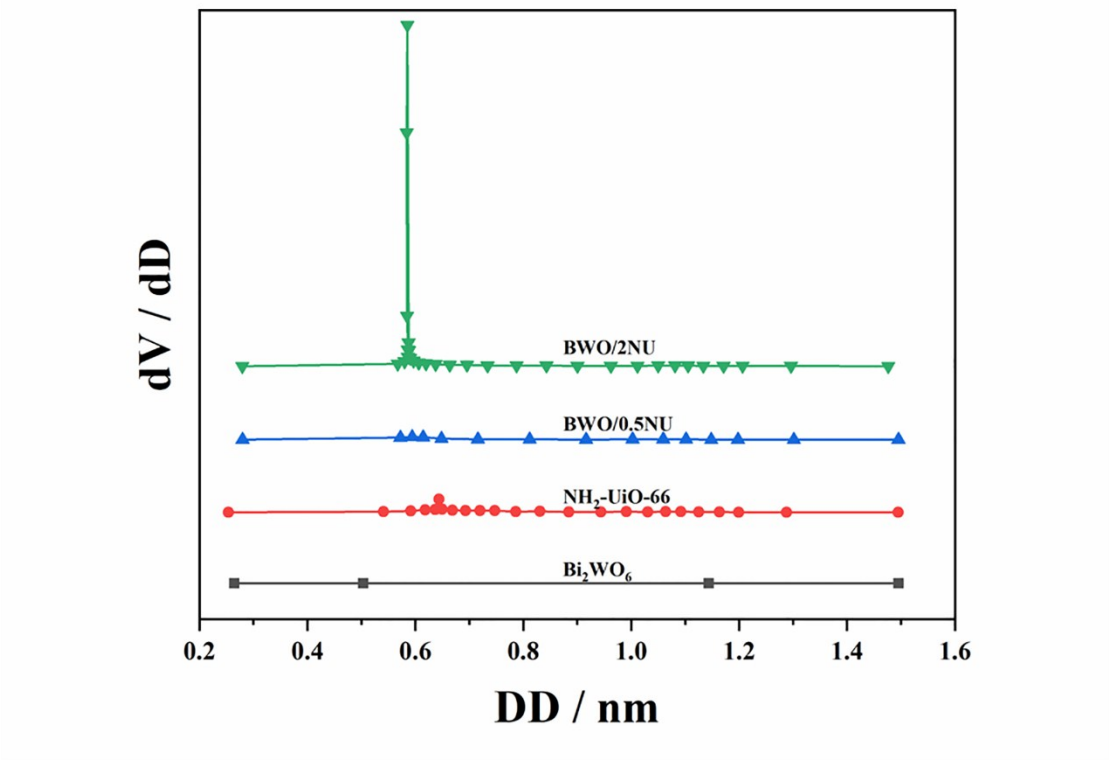


**Figure S4.** Micropore size distributions for $Bi_2WO_6$, $NH_2$-UiO-66, BWO/0.5NU and BWO/2NU.

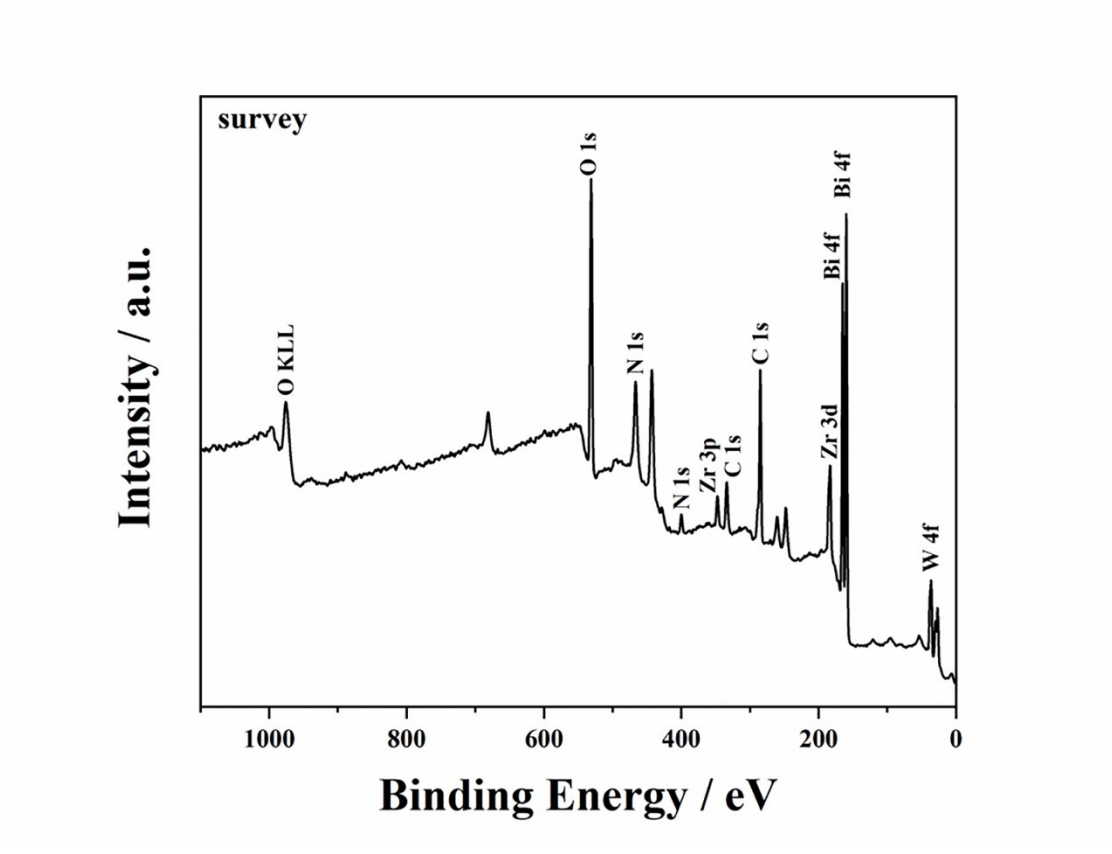


**Figure S5.** XPS survey spectra for BWO/2NU.

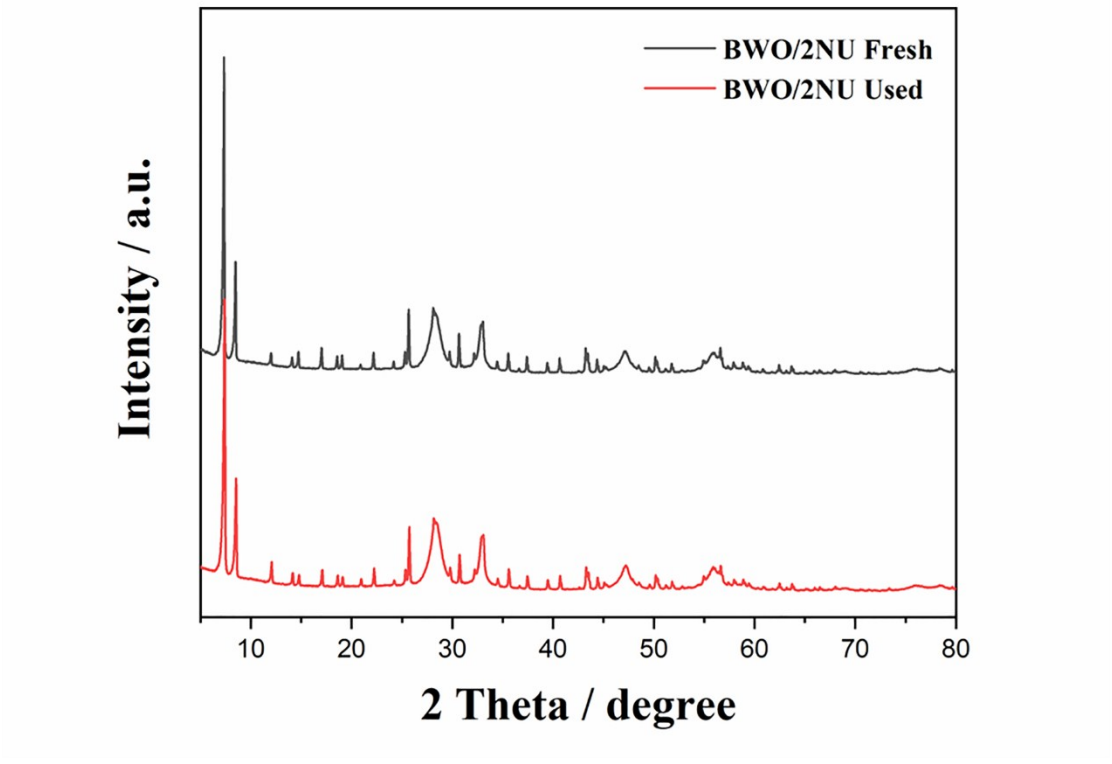


**Figure S6.** XRD comparison patterns for the fresh and used BWO/2NU.

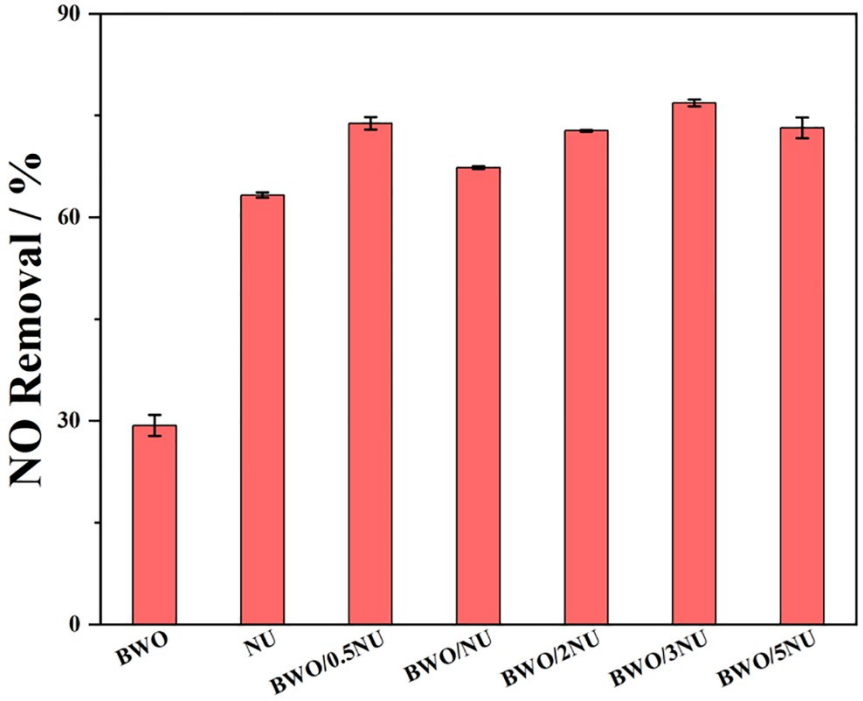


**Figure S7.** The photocatalytic efficiency of NO removal on different samples.

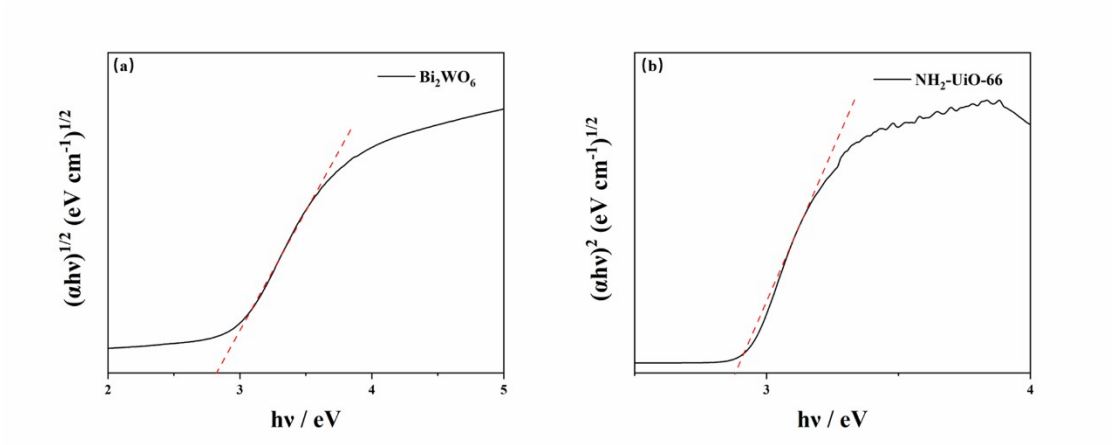


**Figure S8.** The Tauc plots of (a) $Bi_2WO_6$, (b) $NH_2$-UiO-66.

**Table S1.** Summary of studies on photocatalysts for NO removal application

| Catalyst | NO concentration / ppb | NO removal / % | Continuous Flow Rate | Light source | Source |
|---|---|---|---|---|---|
| Bi/g-$C_3N_4$-HA | 500 | 60.8 | 2.4 L/min | 150 W tungsten halogen lamp (>420 nm) | [1] |
| CQDs/$ZnFe_2O_4$ | 400 | 38 | 3 L/min | 300 W Xe lamp (>420 nm) | [2] |
| Fe/$TiO_2$ | 400 | 45-60 | 1.2 L/min | 500 W Xe lamp (>420 nm) | [3] |
| ZnO | 400 | 77 | 4 L/min | UV-LED (λ=365 nm) | [4] |
| X-B-PCN | 500 | 44.1 | 2.4 ml/min | 300 W halogen lamp | [5] |
| g-$C_3N_4$/$TiO_2$ | 1000 | 42 | 3 L/min | UV | [6] |
| | | 38 | 3 L/min | Visible light | |
| Bi/BiOBr | 600 | 63.53 | 2.4 ml/min | 150 W tungsten halogen lamp (>420 nm) | [7] |
| pCN/$TiO_2$ | 400 | 25.8 | 1.2 L/min | 300 W Xe lamp (>420 nm) | [8] |
| Au/$Bi_2MoO_6$/ $Bi_2WO_6$ | 1000 | 64.33 | 0.41 L/min | 300 W Xe lamp (>420 nm) | [9] |

## References


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