

Supplementary information

Enhanced photocatalytic nitrogen fixation in BiVO_4 : constructing oxygen vacancies and promoting electron transfer through Ohmic-contact

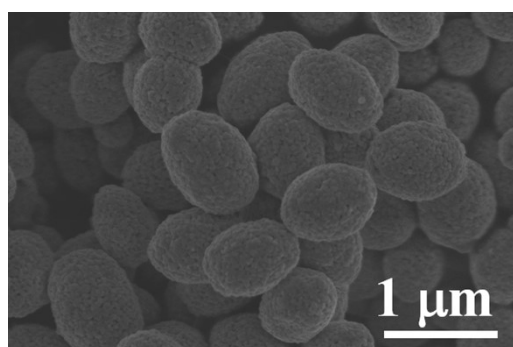


Fig. S1 SEM image of OV-BVO.

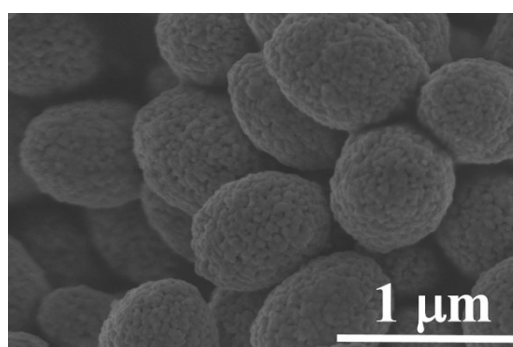


Fig. S2 SEM image of BVO.

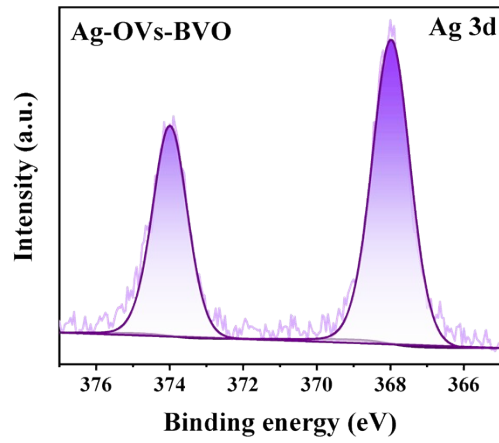


Fig. S3 The high resolution XPS spectra of Ag 3d in Ag-OVs-BVO.

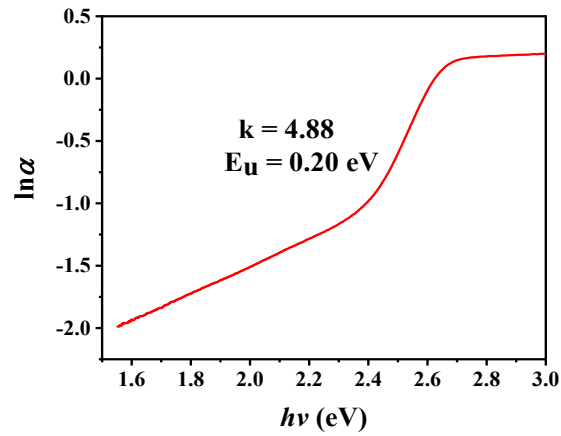


Fig. S4 The Urbach plot OV s-BVO.

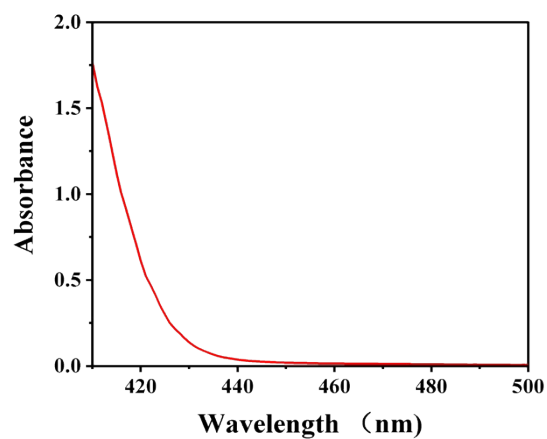


Fig. S5 Determination of N_2H_4 content in Ag-OVs-BVO photocatalytic reaction products.

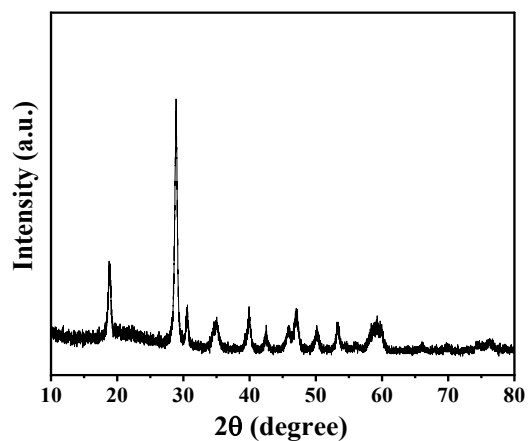


Fig. S6 XRD spectra of Ag-OVs-BVO after photocatalytic in N_2 environment.

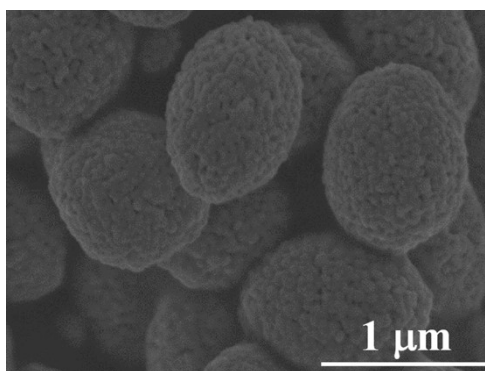


Fig. S7 SEM image of Ag-OVs-BVO after photocatalytic in N_2 environment.

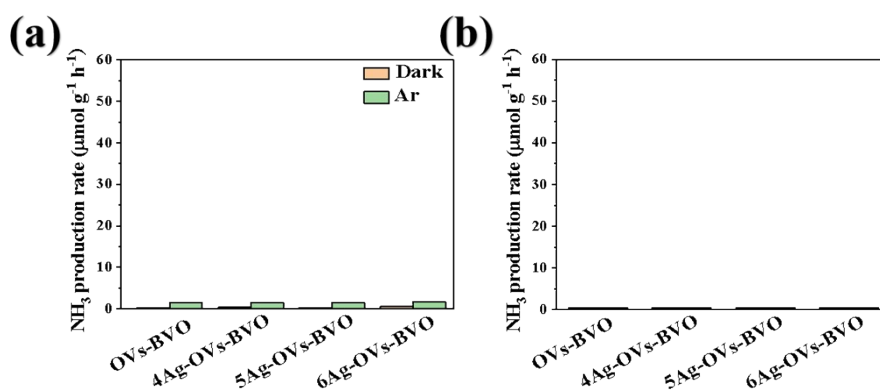


Fig. S8 (a) NH_3 production rate in the N_2 circumstance without light irradiation and in Ar circumstance with light irradiation; (b) NH_3 production rate without catalyst under N_2 and light irradiation.

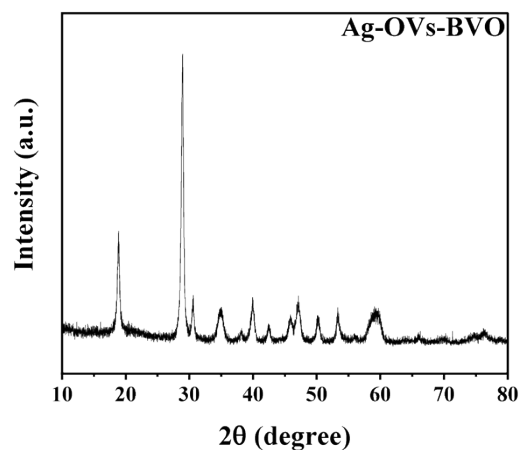


Fig. S9 XRD spectra of Ag-OVs-BVO after photocatalytic in Ar environment.

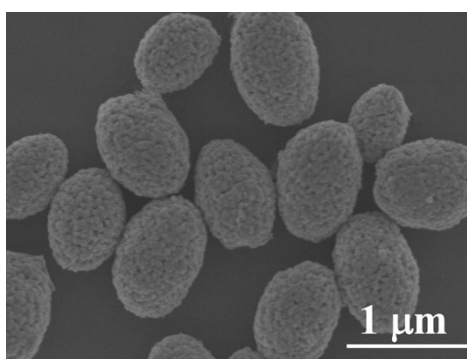


Fig. S10 SEM image of Ag-OVs-BVO after photocatalytic in Ar environment.

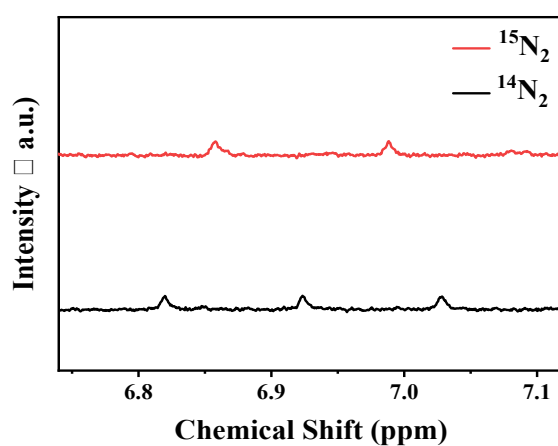


Fig. S11 ^1H NMR spectra of Ag-OVs-BVO photocatalytic reaction products under different atmospheres.

Table S1 Analysis consequence of element mass content in Ag-OVs-BVO through EDX.

Element	Bi	V	O	Ag
Mass percentage (%)	66.35	16.11	13.62	3.92

