

**Silver-deposited, Nitrogen-doped Yolk-shell Mesoporous TiO₂
Hollow Microspheres with Enhanced Visible Light Photocatalytic
Activity**

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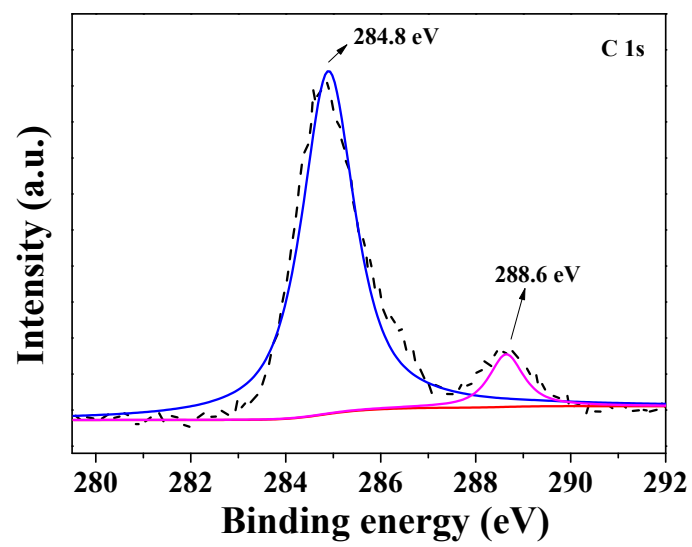


Figure S1 XPS spectrum of C 1s for the as-synthesized 1.5Ag-N-TiO₂-YSM.

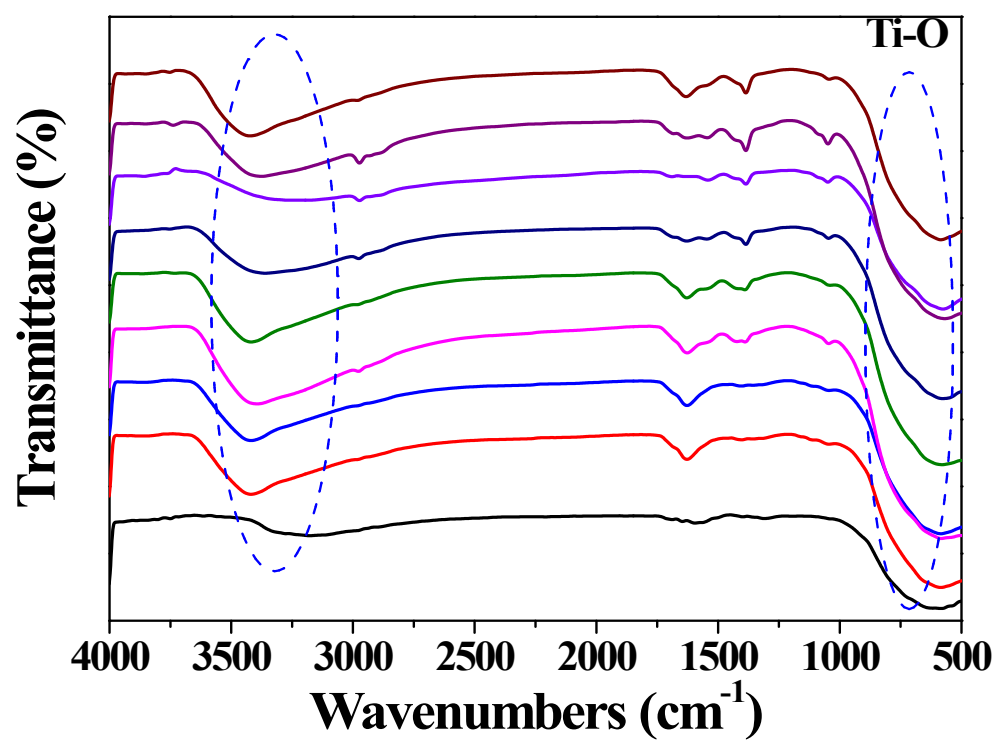


Figure S2 FTIR spectra of N-TiO₂-YSM and a series of Ag-N-TiO₂-YSM.

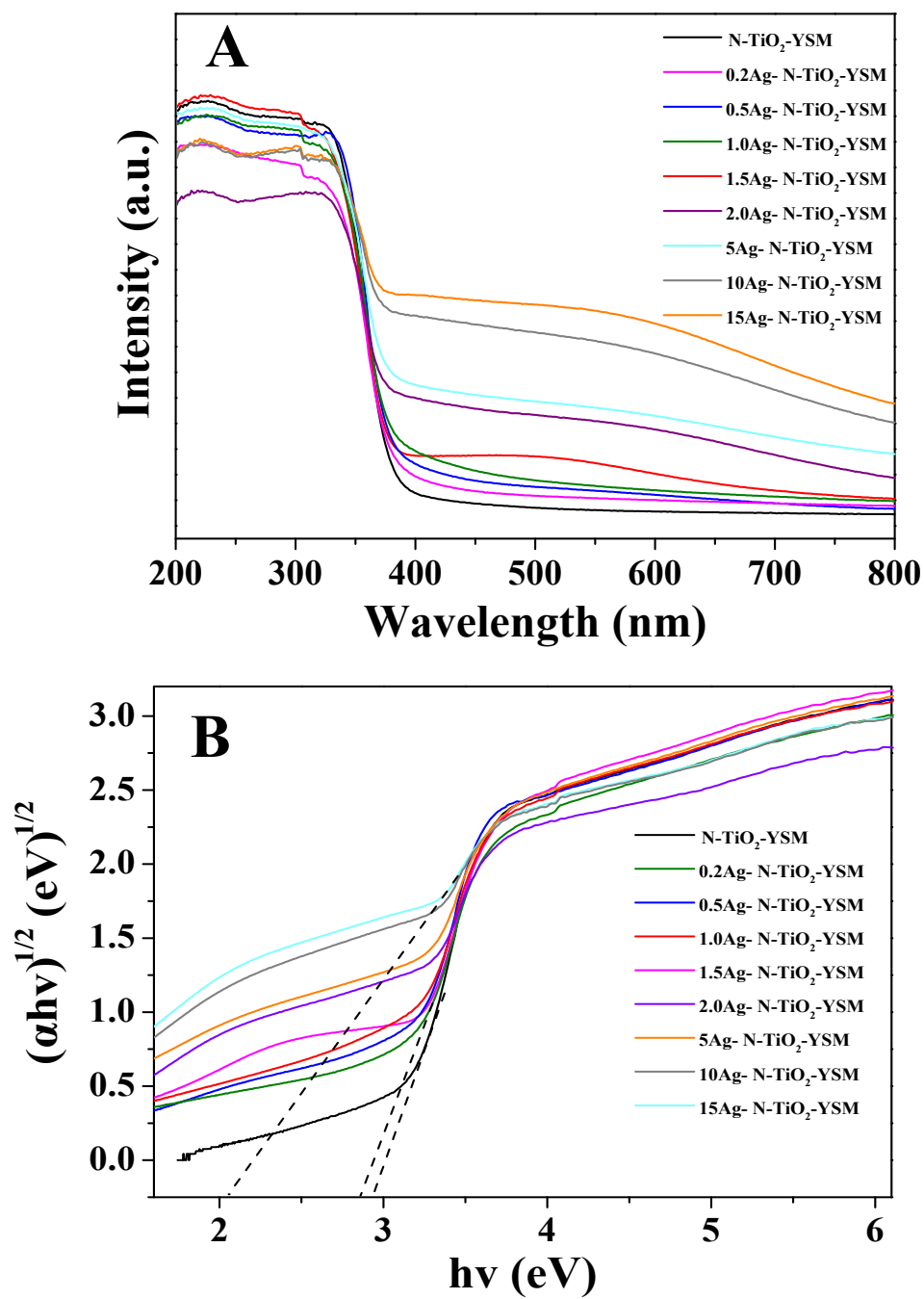


Figure S3 UV-vis diffuse reflectance spectra (A) and the band-gap energies (B) of as-prepared TiO₂-based materials.

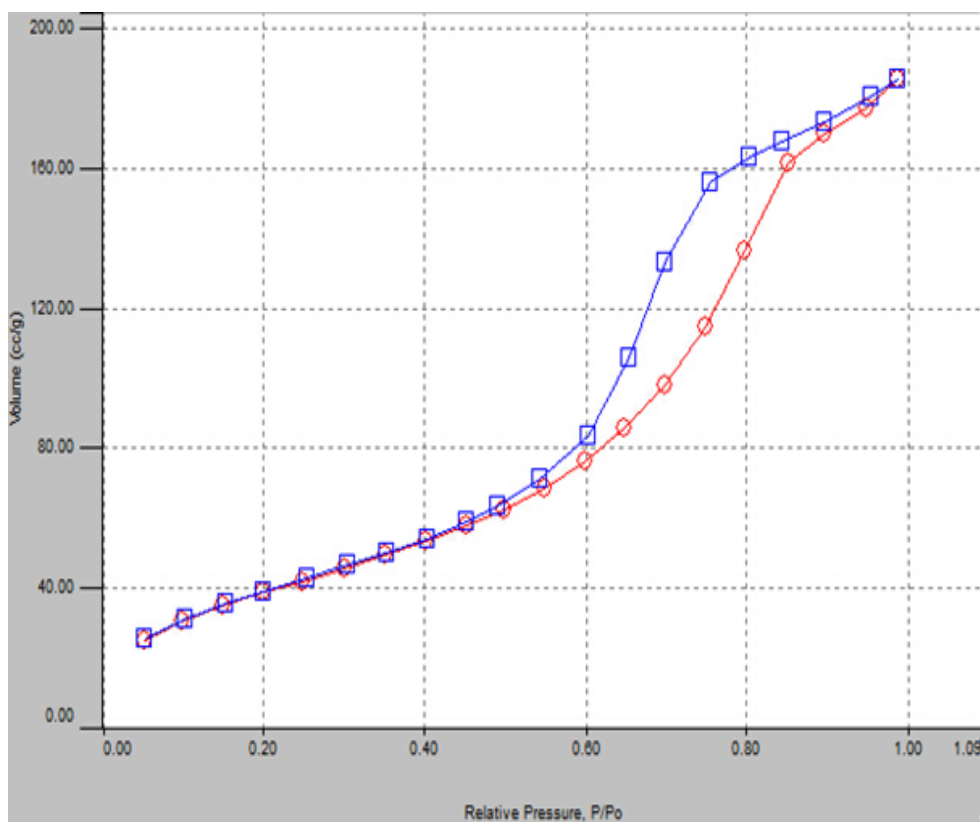


Figure S4 N₂ adsorption-desorption isotherms of the reused 1.5Ag-N-TiO₂-YSM.