Supporting Information

N-doped Ag/TiO₂ Hollow Spheres for Highly Efficient Photocatalysis under Visible-light Irradiation

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Fig. S1. TEM images of hollow spheres at different periods: (a) as-prepared SiO₂ core, (b) SiO₂ core/TiO₂ shell, (c)TiO₂ and SiO₂ yolk-shell structure, (d) pure TiO₂ hollow spheres structure.



Fig. S2. SEM images of (a,b) pure TiO_2 hollow spheres, (c,d) TiO_2 hollow spheres with N and Ag co-doping.



Fig. S3. Photocatalytic degradation of methyl orange under visible-light irradiation.

Samples	Surface area/ $m^2 g^{-1}$
Hollow spheres	223
N/Hollow spheres	164
Ag-Hollow spheres	193
Ag-N/Hollow spheres	143
N/P25	26
Ag-P25	27
Ag-N/P25	22

Table. S1 BET surface area of prepared samples.