

Electronic Supplementary Material (ESI) for RSC Advances
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Supporting Information:

Ag-decorated Bi₂O₃ Nanospheres with Enhanced Visible-light-driven Photocatalytic Activities for Water Treatment

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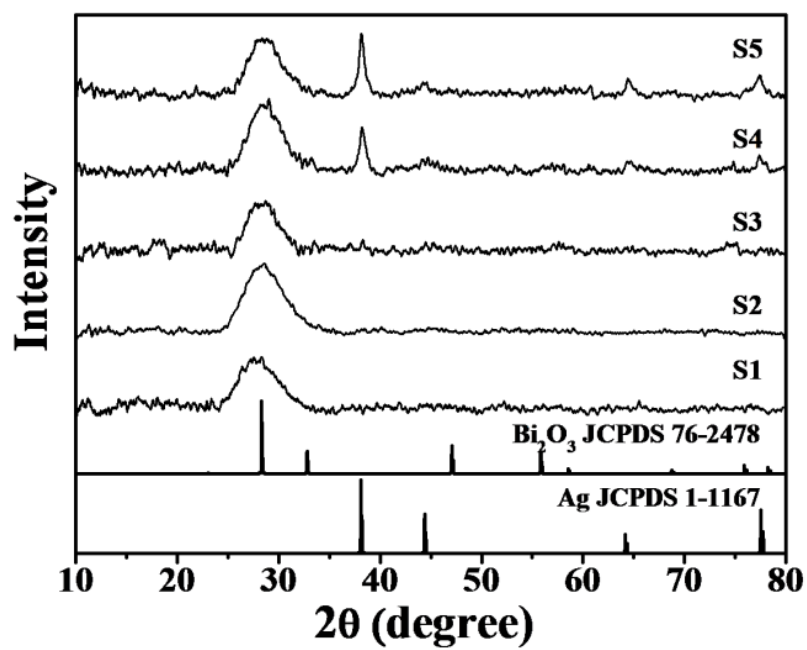


Fig S1. XRD patterns of Bi_2O_3 nanospheres and Ag/ Bi_2O_3 products.

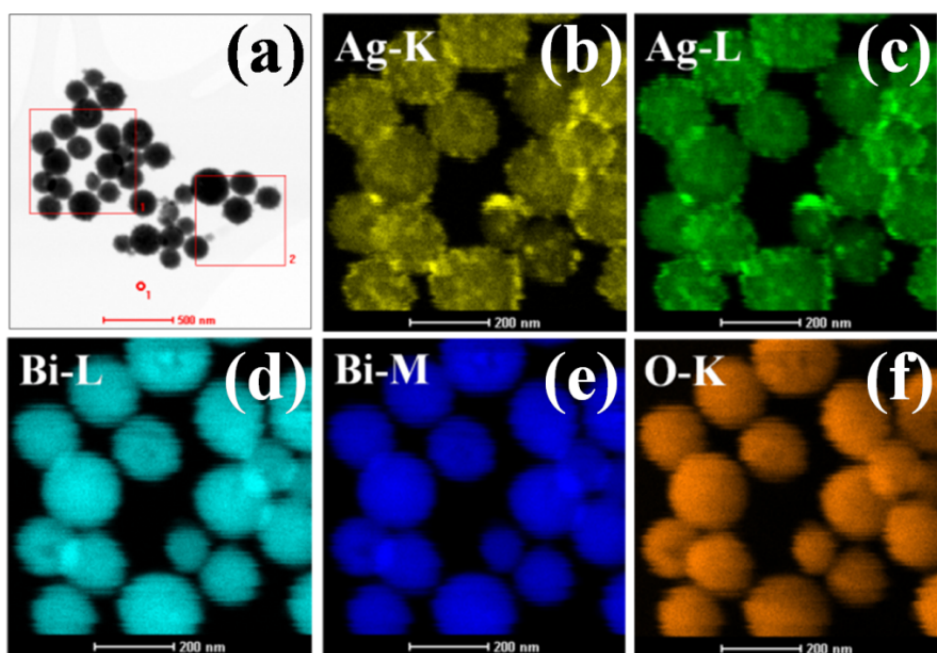


Fig. S2 STEM image of a small area of **S5** (a) in bright field mode exhibiting elemental mapping. EDX Ag-K mapping ((b): yellow), EDX Ag-L mapping ((c): green), EDX Bi-L mapping ((d): cyan), EDX Bi-M mapping ((e): blue), and EDX O-K mapping ((f): orange) on the TEM image.

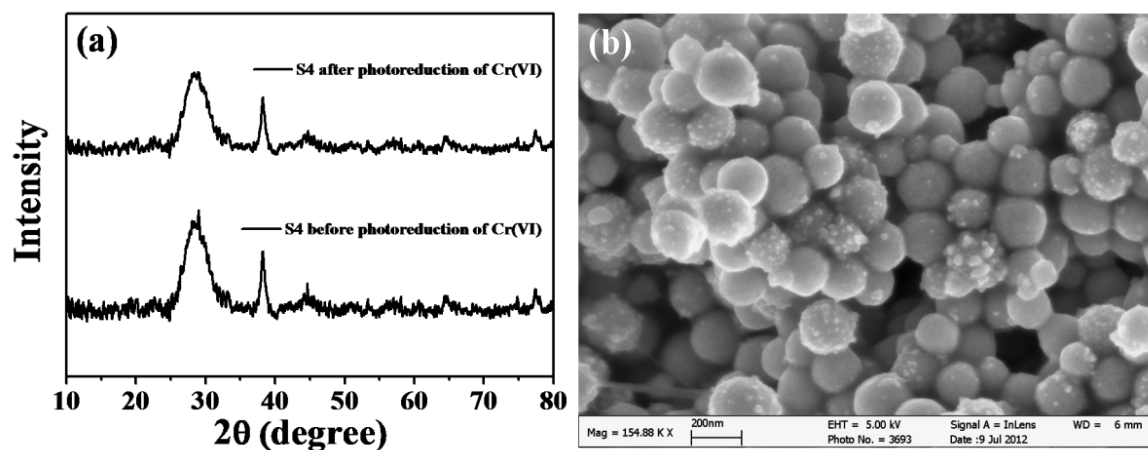


Fig S3. XRD pattern (a) and SEM image (b) analysis of 10 wt% Ag/Bi₂O₃ (**S4**) after the photoreduction of Cr(VI).

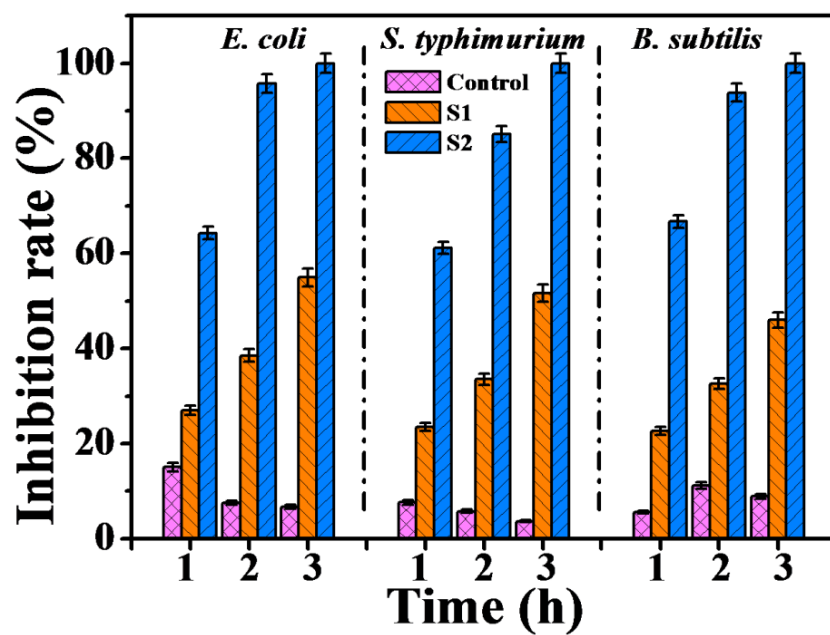


Fig S4. Photocatalytic disinfection of S1 and S2 for different bacteria upon visible light irradiation at different irradiation time.