

Electronic Supplementary Information

Morphology-controlled synthesis of sunlight-driven plasmonic photocatalysts

Ag@AgX (X=Cl, Br) with graphene oxide template

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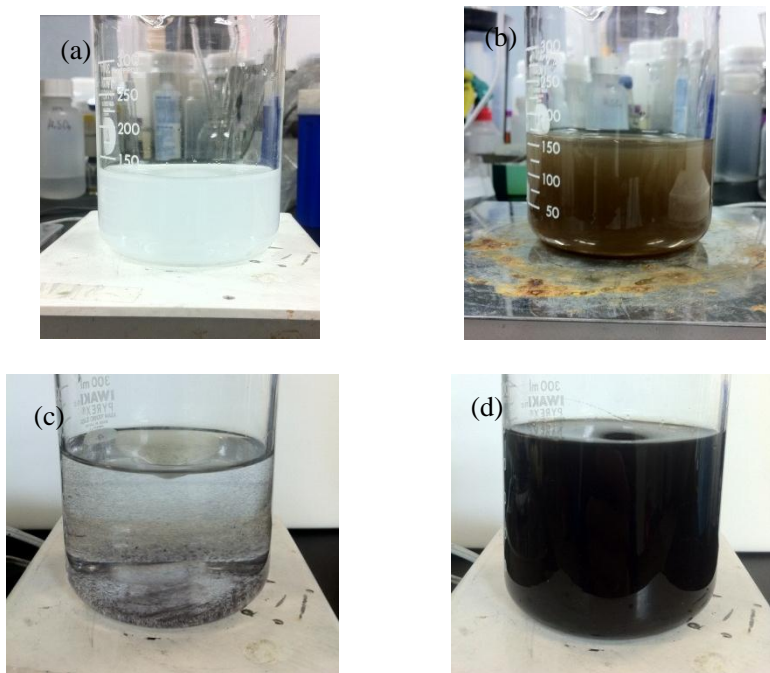


Fig. S1. Photo images of for the synthesis of Ag@AgCl (a, c) and Ag@AgCl@Graphene (b, d) in the process of the addition of NaCl solution and UV irradiation, respectively.

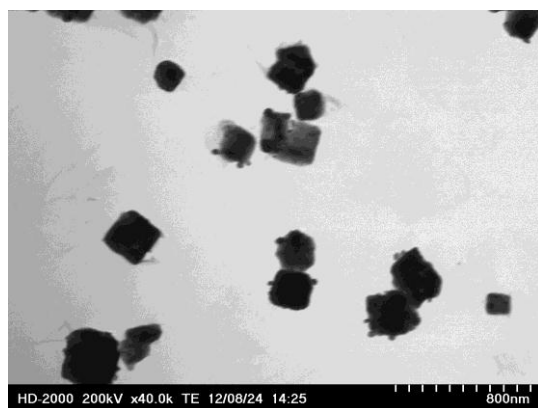


Fig. S2. Representative TEM image of the as-prepared cubic Ag@AgCl@Graphene nanocomposites.

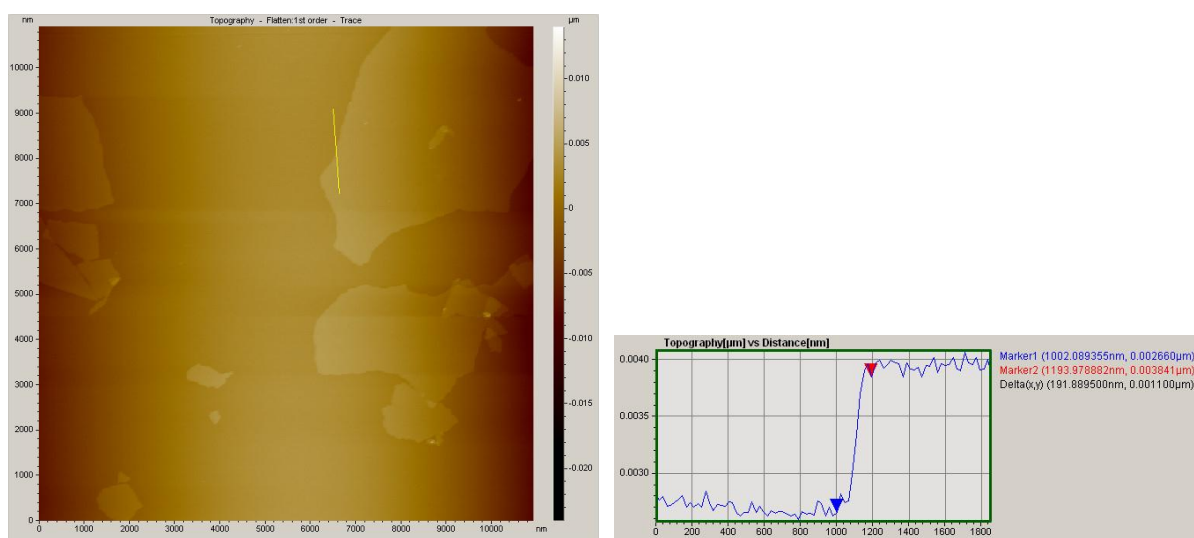


Fig. S3. A typical AFM image of the GO sheets on a mica substrate. The thickness of the GO sheets is estimated to be ~1.1 nm.

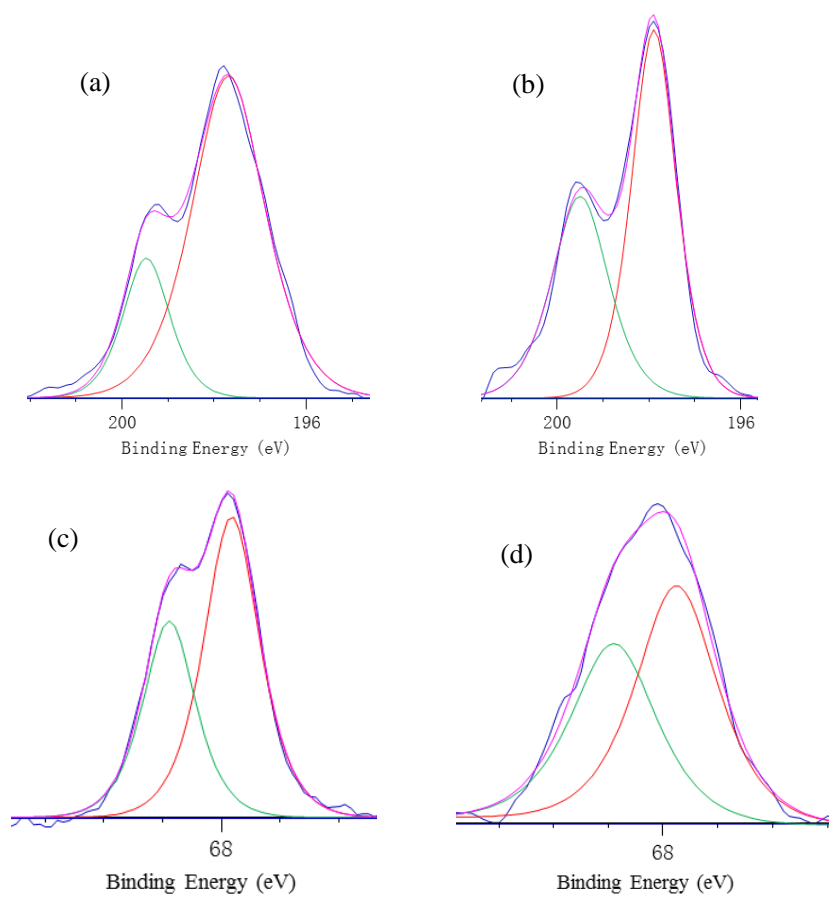


Fig. S4. XPS spectra of Cl 2p of (a) bare Ag@AgCl, (b) Ag@AgCl@Graphene and Br 2p of (c) bare Ag@AgBr, (d) Ag@AgBr@Graphene nanocomposites.