

Tuning Metal@Metal Salts Photocatalytic by Different Charged Anions (Supporting information)

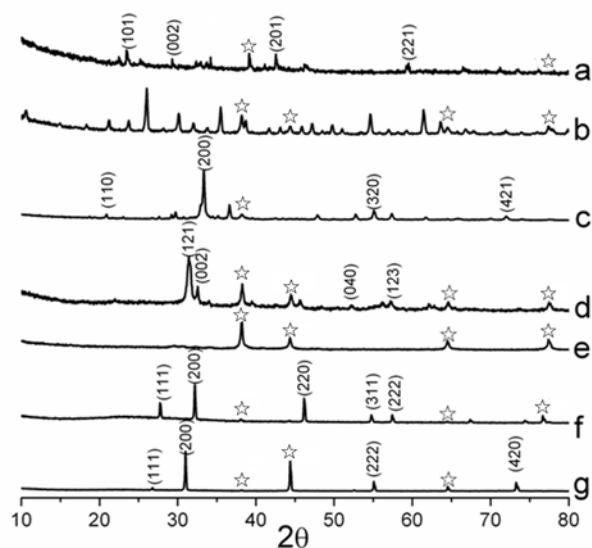


Figure S1. The index of all XRD peaks of Ag@Ag salts: (a) Ag@AgI, (b) Ag@Ag₃PW₁₂O₄₀, (c) Ag@Ag₃PO₄, (d) Ag@Ag₂CrO₄, (e) Ag@Ag₄SiW₁₂O₄₀, (f) Ag@AgCl, and (g) Ag@AgBr.

☆ denotes the XRD peaks of AgNPs.

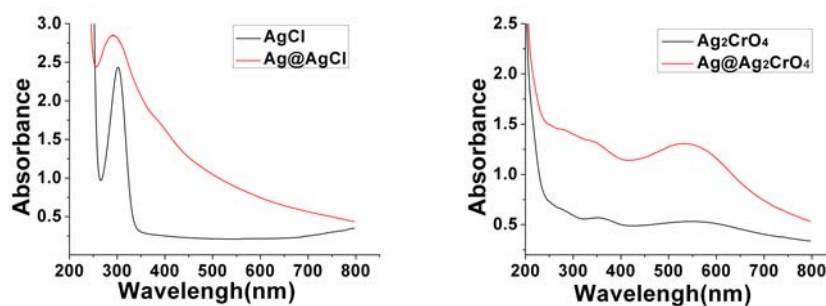


Figure S2. UV-Vis diffuse-reflectance spectra of Ag salts and Ag@Ag salts: (a) AgCl and Ag@AgCl; (b) Ag₂CrO₄ and Ag@Ag₂CrO₄.

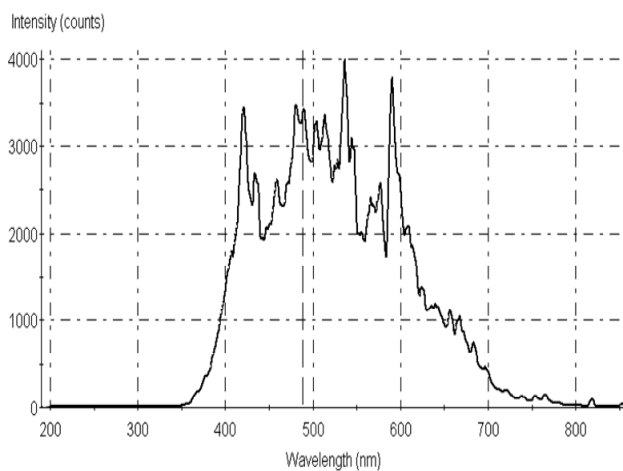


Figure S3. Spectrum of the halogen lamp.

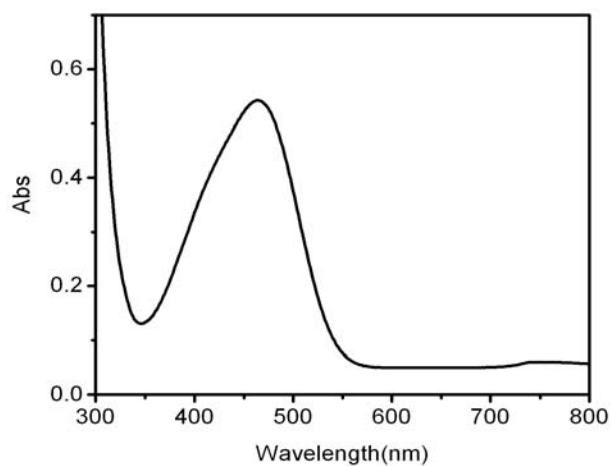


Figure S4. Ultraviolet-visible spectrum of the methyl orange (MO) solution.

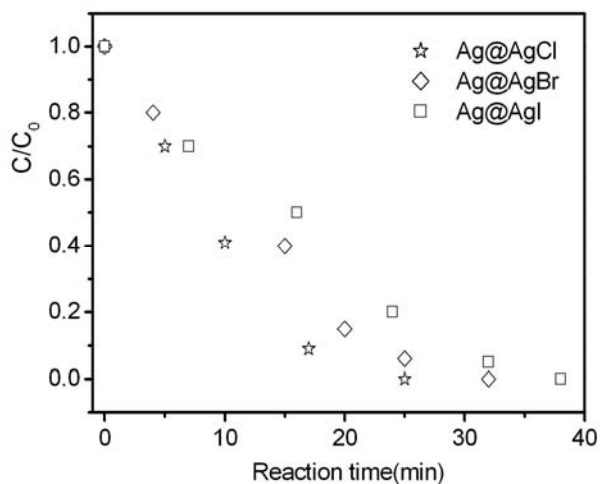


Figure S5. Photocatalytic activity of different Ag@Ag salts catalysts with same charged anions. C is the concentration of MO at reaction time t and C₀ is the initial concentration of MO .

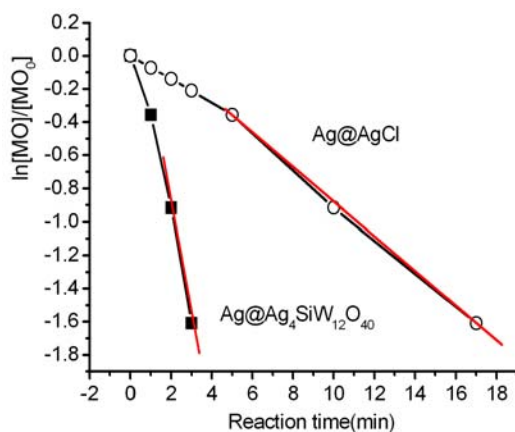


Figure S6. Degradation rate of MO, semi-logarithmic (left) and in linear (right) scales, assisted with Ag@Ag₄SiW₁₂O₄₀ and Ag@AgCl.

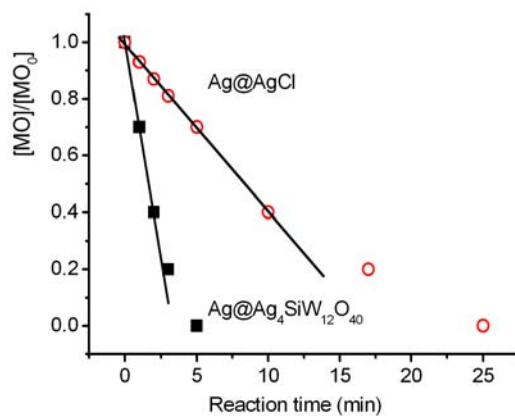


Figure S7. Degradation rate of MO, in linear (left) and semi-logarithmic (right) scales, assisted with Ag@Ag₄SiW₁₂O₄₀ and Ag@AgCl.