

Supporting Information

SiO₂@Ag/AgCl: A low-cost and highly efficient plasmonic photocatalyst active under visible light

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Fig S1 SEM image of SiO₂@Ag/AgCl after 1 h of ultrasonication.

Fig S2 SEM image of pure Ag/AgCl.

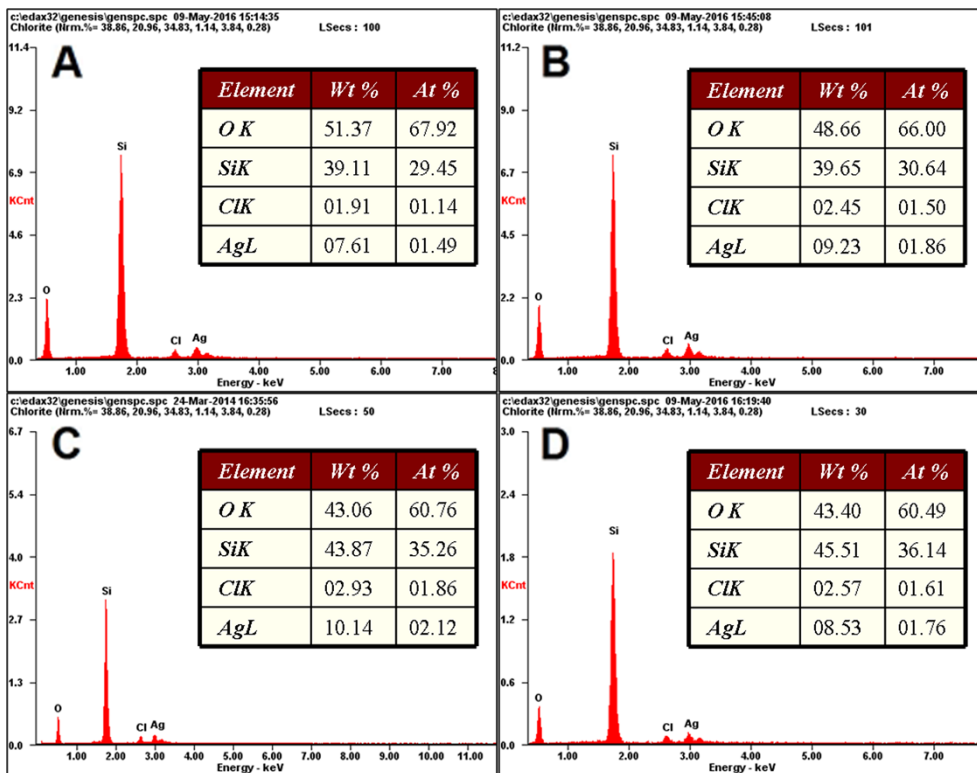


Fig S3 EDS spectra of (A)SAA-1, (B)SAA-2, (C)SAA-3 and (D)SAA-4.

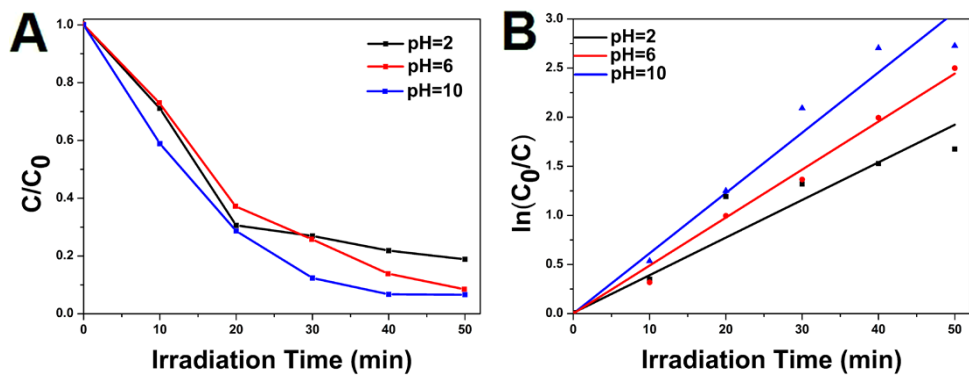


Fig S4 (A) Photocatalytic degradation efficiencies of RhB solution with different pH over SAA-3 under visible light irradiation ($\lambda \geq 420\text{nm}$), (B) kinetic linear simulation curves. C_0 is the concentration after absorption, and C is concentration at time t .

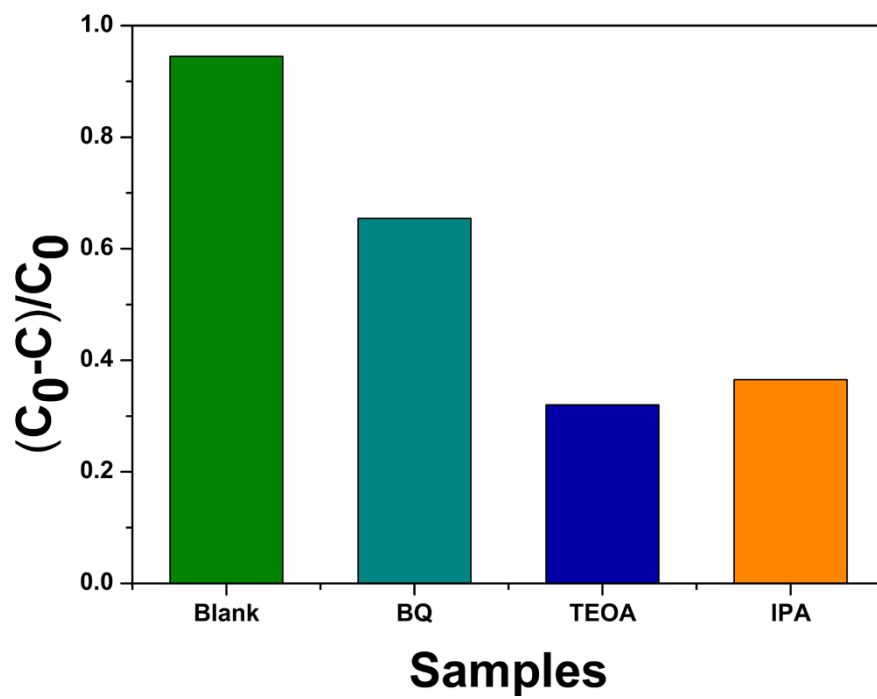


Fig S5 Effects of a series of scavengers on the degradation efficiency of RhB.

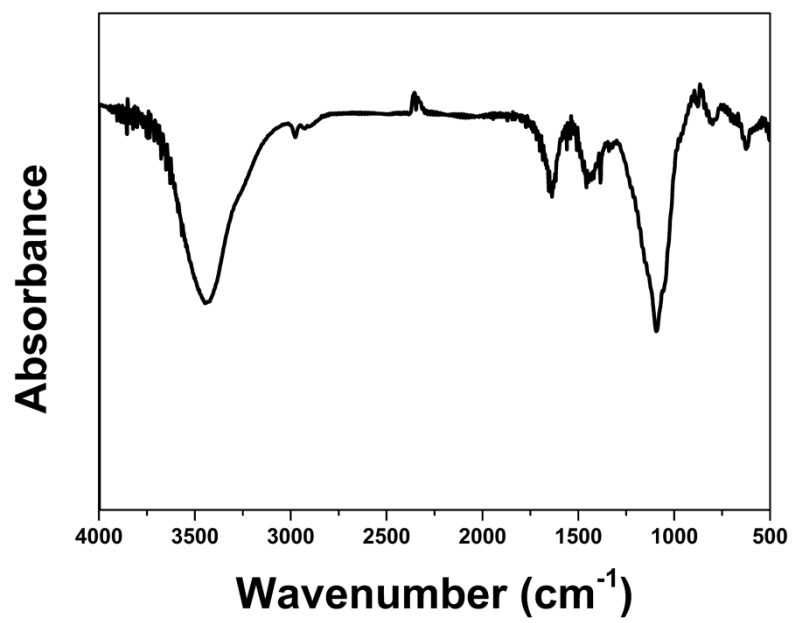


Fig S6 FTIR spectra of pure SiO₂.

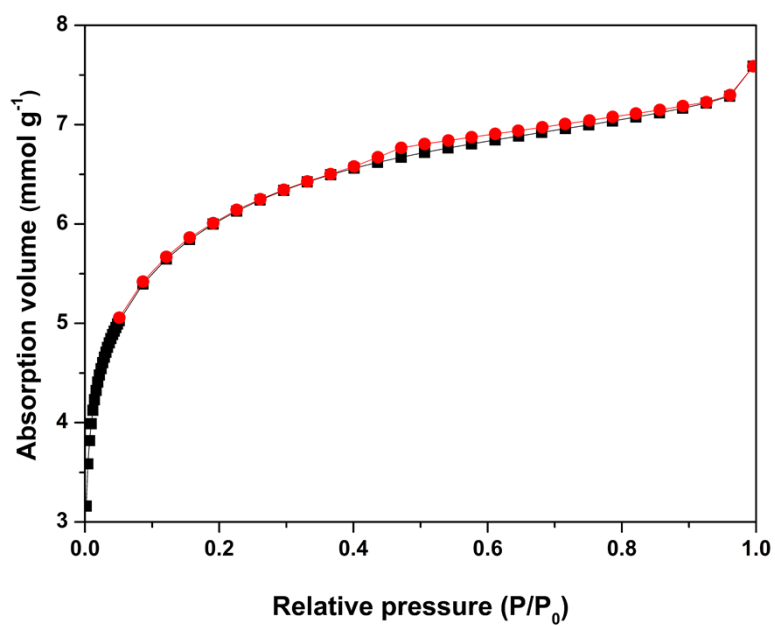


Fig S7 N_2 adsorption and desorption isotherm of pure SiO_2 .

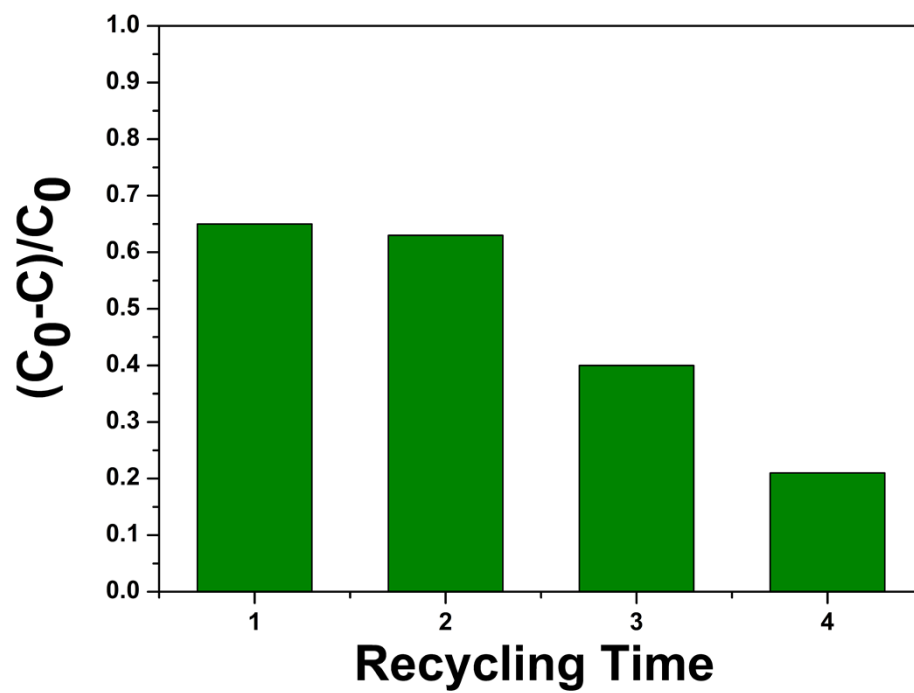


Fig S8 Four cycling experiments results of pure Ag/AgCl.