

**Engineering plasmonic Ag/AgCl-polydopamine-carbon nitride
composites for enhanced photocatalytic activity based on mussel
chemistry**

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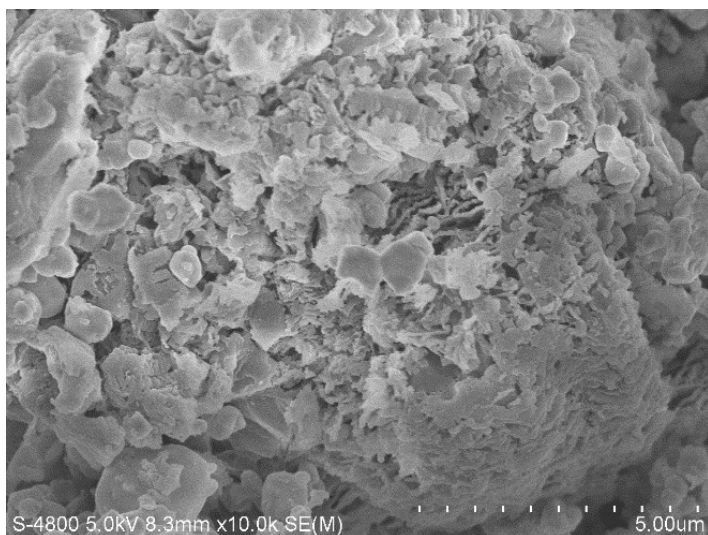


Figure S1. The SEM images of Ag/AgCl-CN.

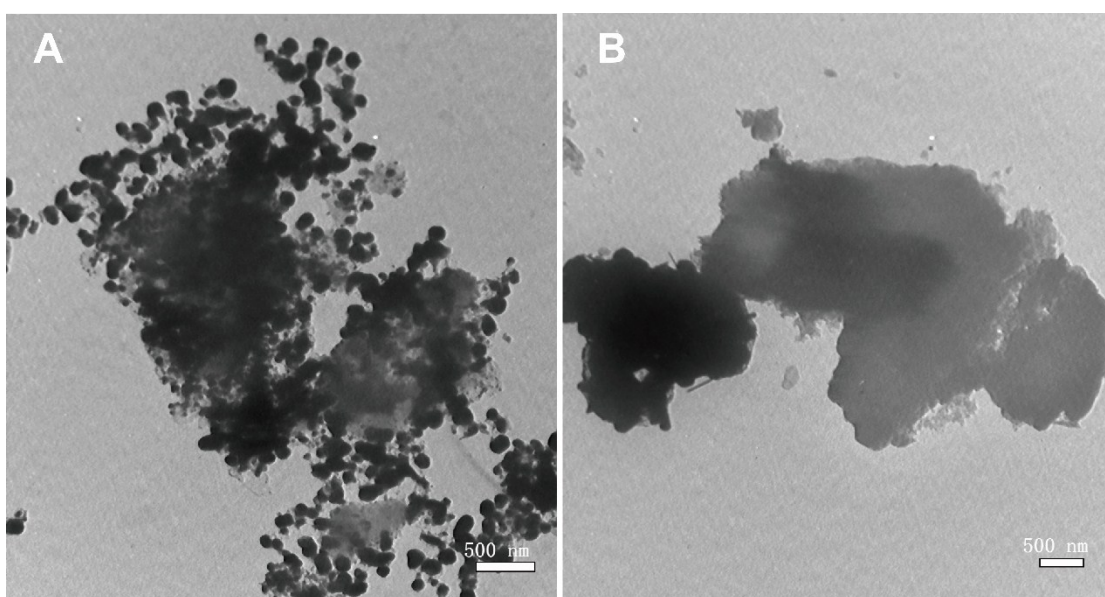


Figure S2. The TEM images of SPCN50 (A) and Ag/AgCl-CN (B) after ultrasonication for 1 h.

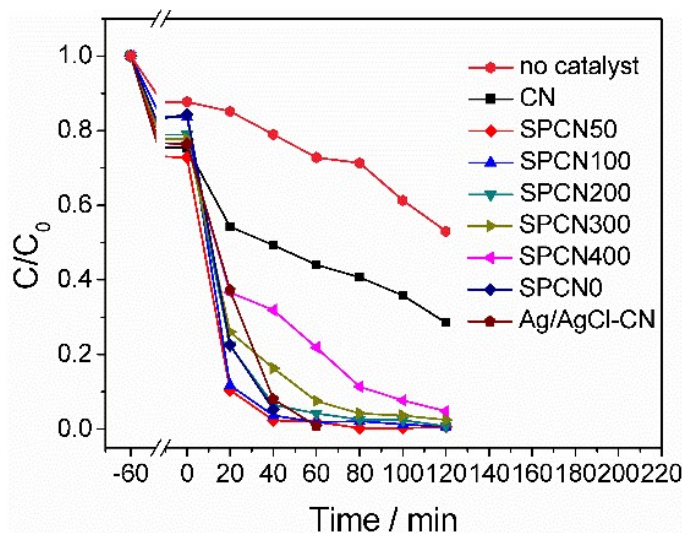


Figure S3. Photocatalytic degradation of Rh 6G (50 mL, 5 mg/L) over CN, P-Ag/AgCl, Ag/AgCl-CN and as-prepared SPCN (5 mg).

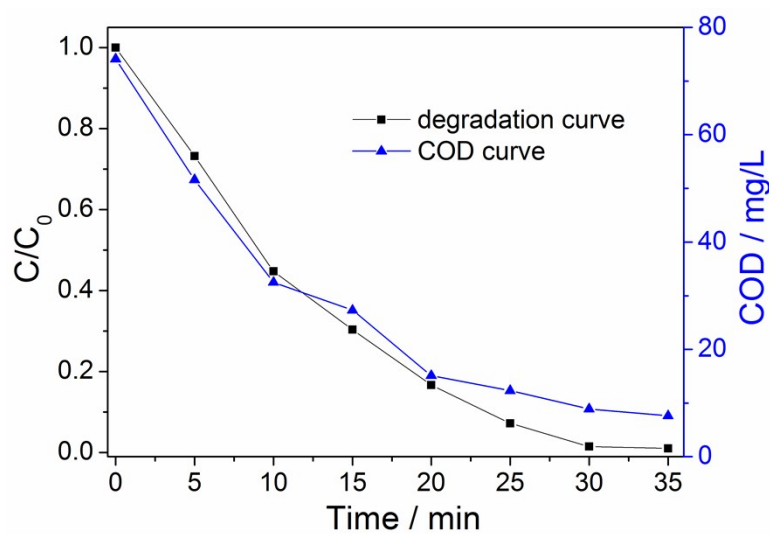


Figure S4. The COD curve of RhB degraded by SPCN50 under visible light. (The COD value was obtained by the KMnO_4 method)

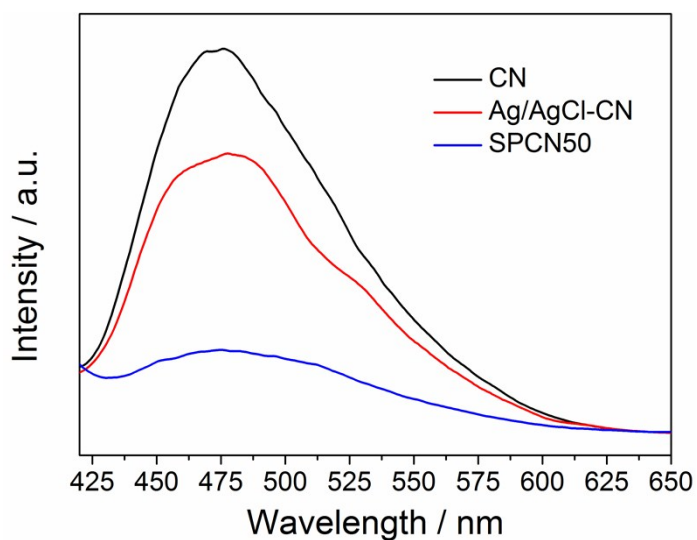


Figure S5. Room-temperature PL excitation and emission spectra of CN, Ag/AgCl-CN and SPCN50 ($\lambda_{\text{ex}}=350$ nm).

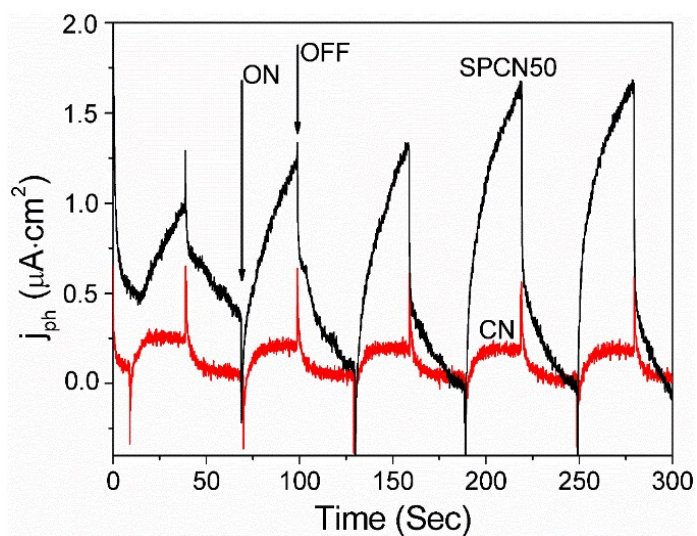


Figure S6. Photoresponses of CN and SPCN50 electrodes under the irradiation of visible light ($\lambda > 420$ nm), $[\text{Na}_2\text{SO}_4] = 0.1$ M.