

Supporting Information

Integration of plasmonic semiconductor with metal–organic framework: A case of Ag/AgCl@ZIF-8 with enhanced visible light photocatalytic activity

Shu-Tao Gao, Wei-Hua Liu, Ning-Zhao Shang, Cheng Feng, Qiu-Hua Wu, Zhi Wang, Chun Wang*

College of Science, Agricultural University of Hebei, Baoding 071000, China

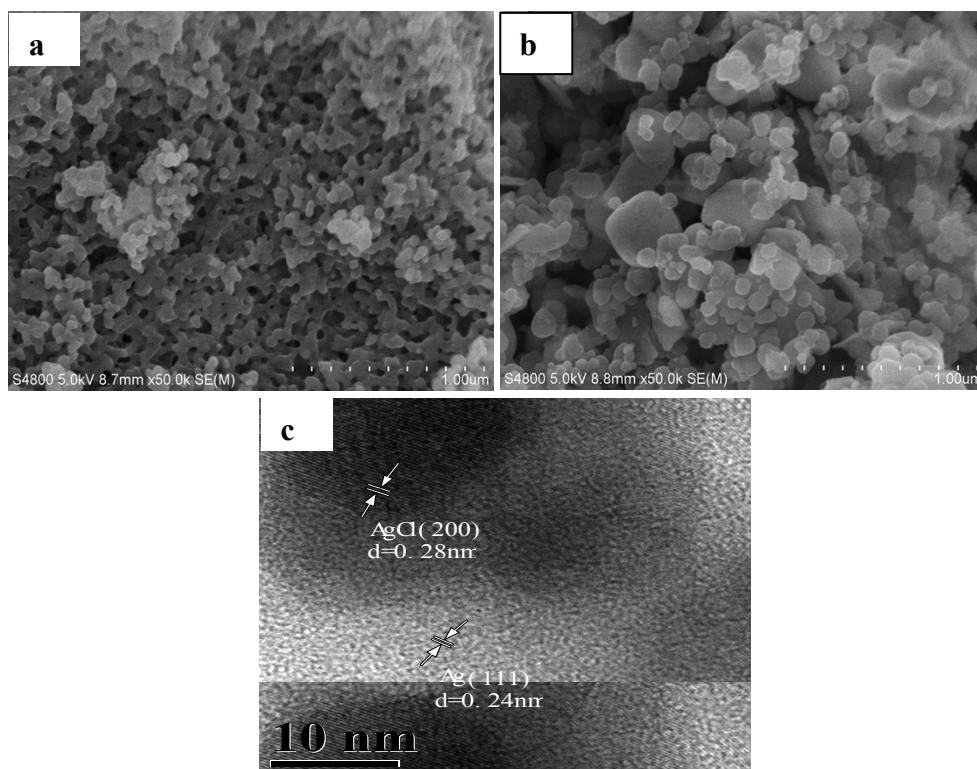


Fig. S1 SEM images of (a) ZIF-8 and (b) Ag/AgCl@ZIF-8, TEM image of (c) Ag/AgCl@ZIF-8.

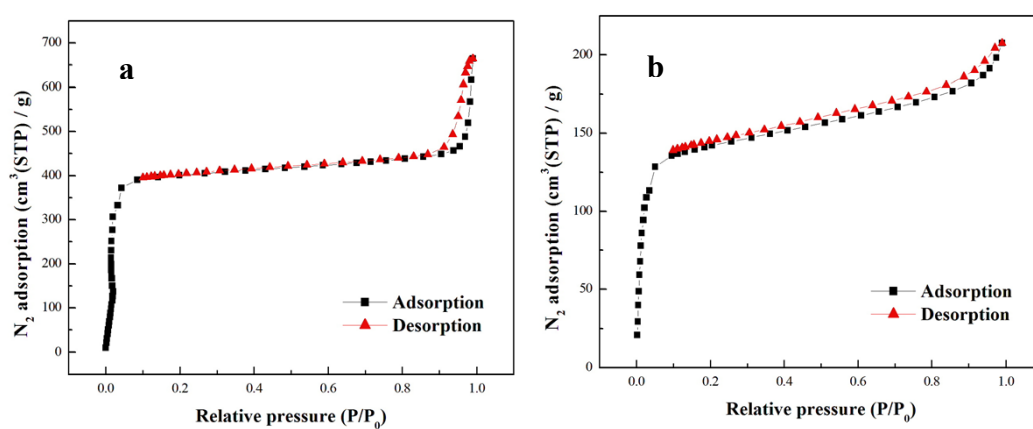
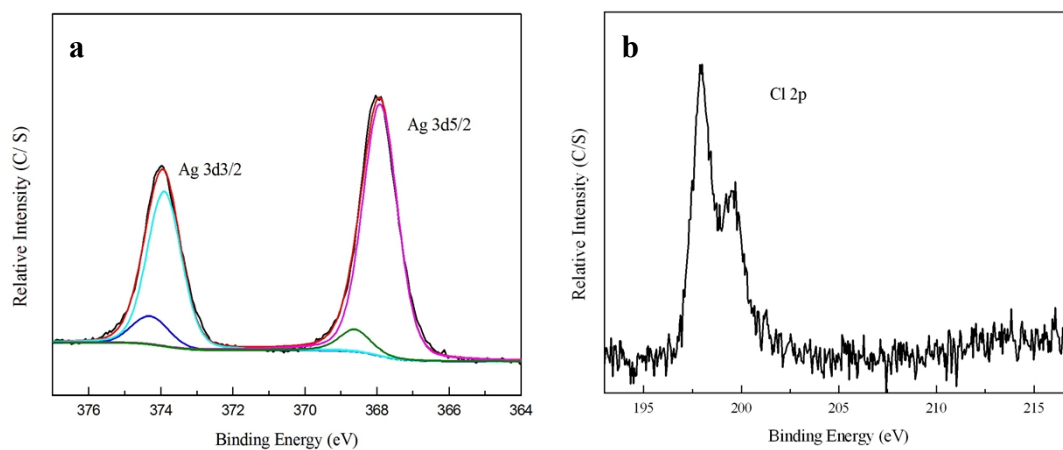


Fig. S2 Nitrogen adsorption-desorption isotherms of (a) ZIF-8 and (b) Ag/AgCl@ZIF-8.



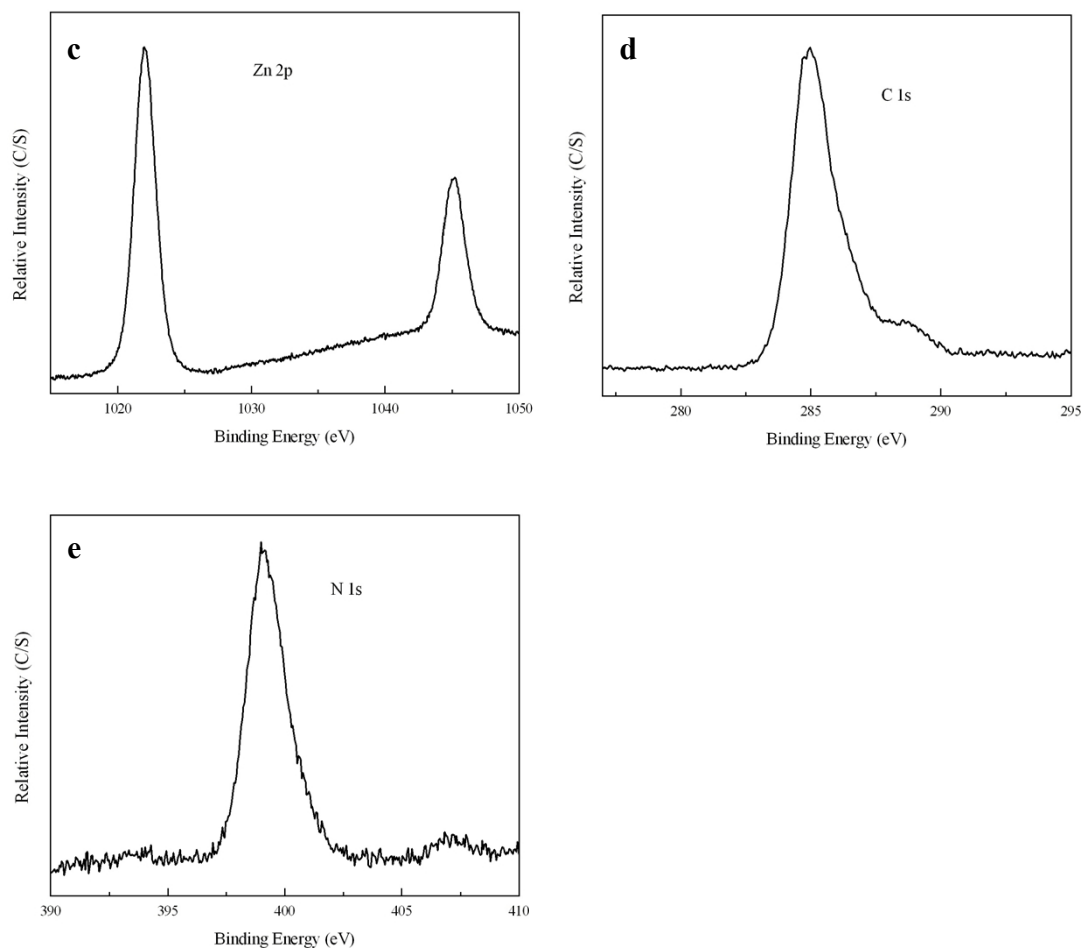


Figure S3. High-resolution XPS spectrum of (a) Ag 3d; (b) Cl 2p; (c) Zn 2p; (d) C 1s and (e) N 1s .

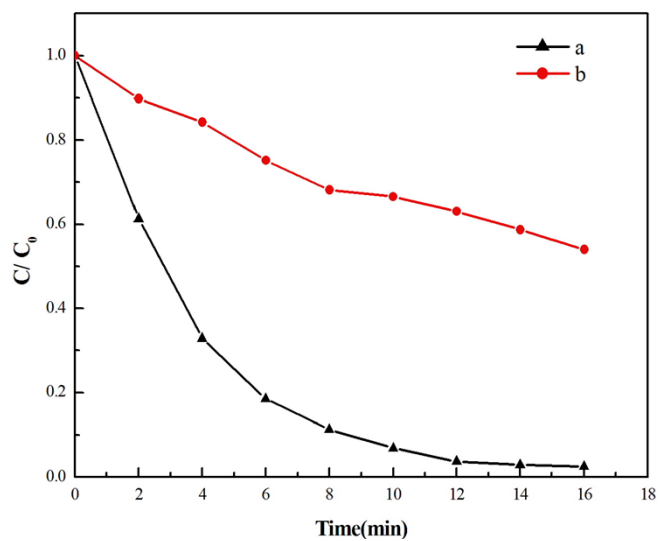


Figure S4. The photodegradation of RhB with (a) 35 wt.% Ag/AgCl@ZIF-8 and (b) the mixture of the Ag/AgCl and ZIF-8.