

Supporting Information

for

Facile synthesis of silver/silver thiocyanate (Ag@AgSCN) plasmonic nanostructures with enhanced photocatalytic performance

Xinfu Zhao¹, Dairong Chen^{1,2}, Abdul Qayum¹, Bo Chen^{*2} and Xiuling Jiao^{*1,2}

Address: ¹School of Chemistry and Chemical Engineering, Shandong University, Jinan 250100, PR China
and ²National Engineering Research Center for Colloidal Materials, Shandong University, Jinan 250100,
PR China

Email: Bo Chen - sduchenbo@126.com, Xiuling Jiao - jiaoxl@sdu.edu.cn

* Corresponding author

Additional experimental data

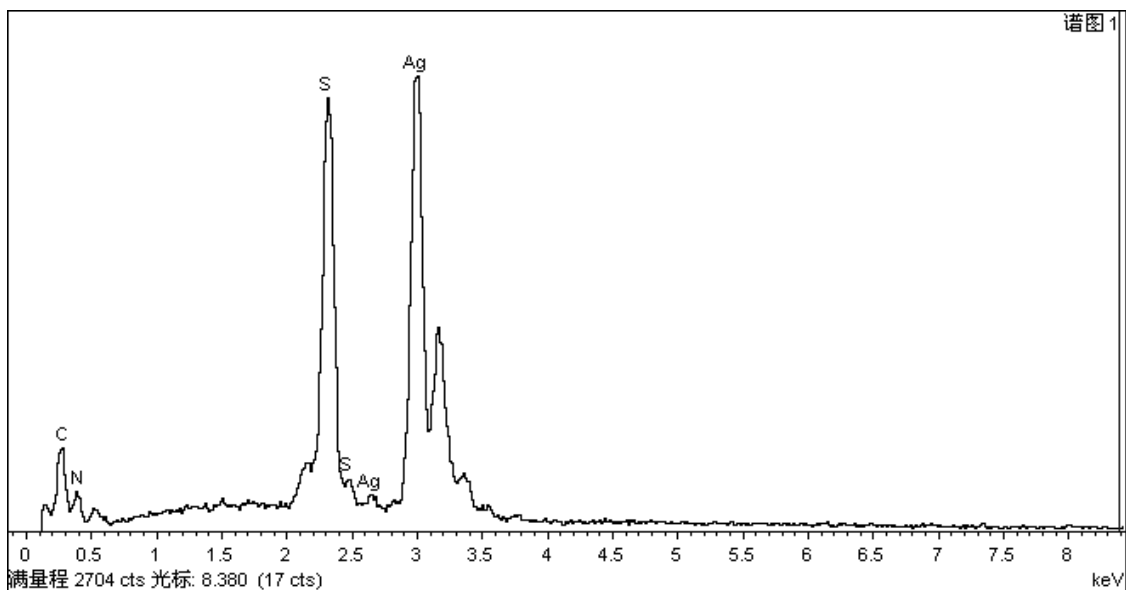


Figure S1: EDS spectrum of AgSCN nanoparticles.

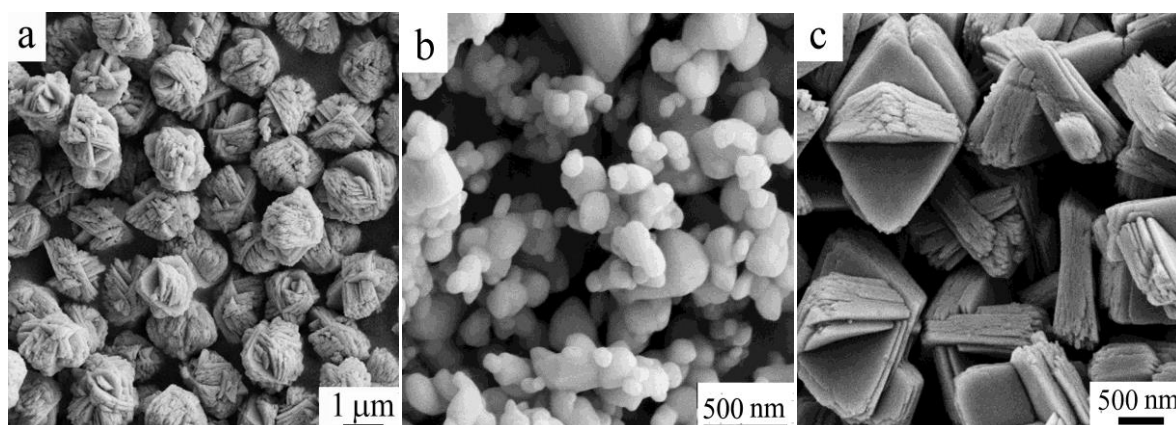


Figure S2: SEM images of AgSCN particles produced with the presence of PVP (a), and without the addition of PVP (b), with rapid addition of AgNO₃ solution instead of dropwise addition (c).

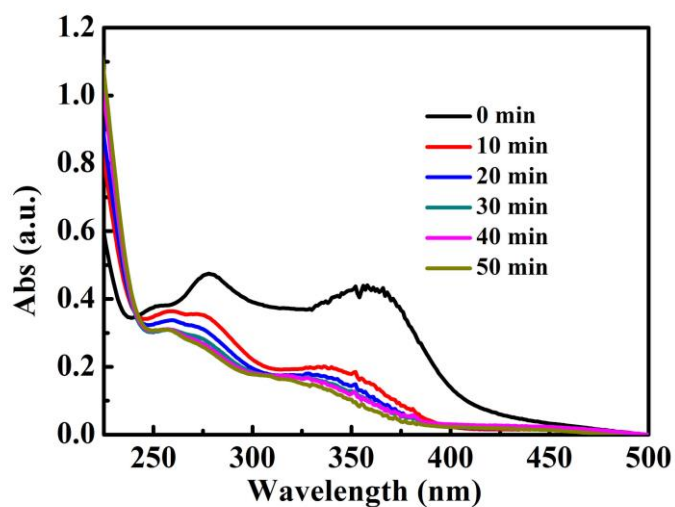


Figure S3: Time dependent variation of UV-vis absorption spectrum of oxytetracycline solution with M_2 as catalyst.

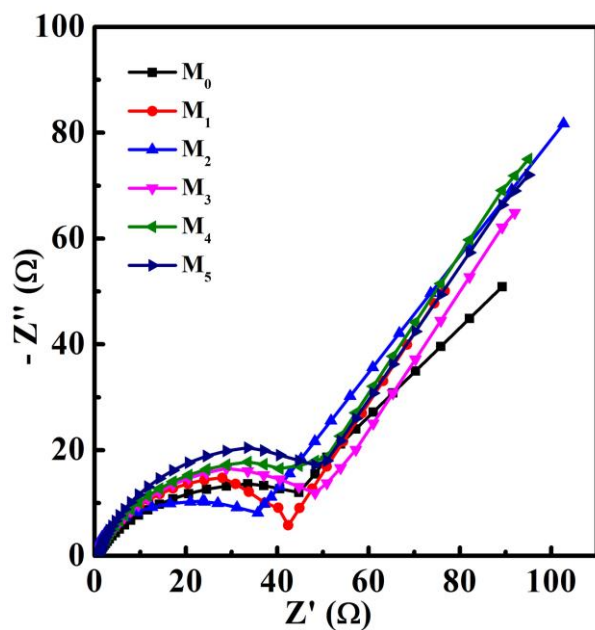


Figure S4: Nyquist plots of M_0 , M_1 , M_2 , M_3 , M_4 , M_5 in 0.1 M NaOH solution with the frequency range of 100 kHz – 0.01 Hz.

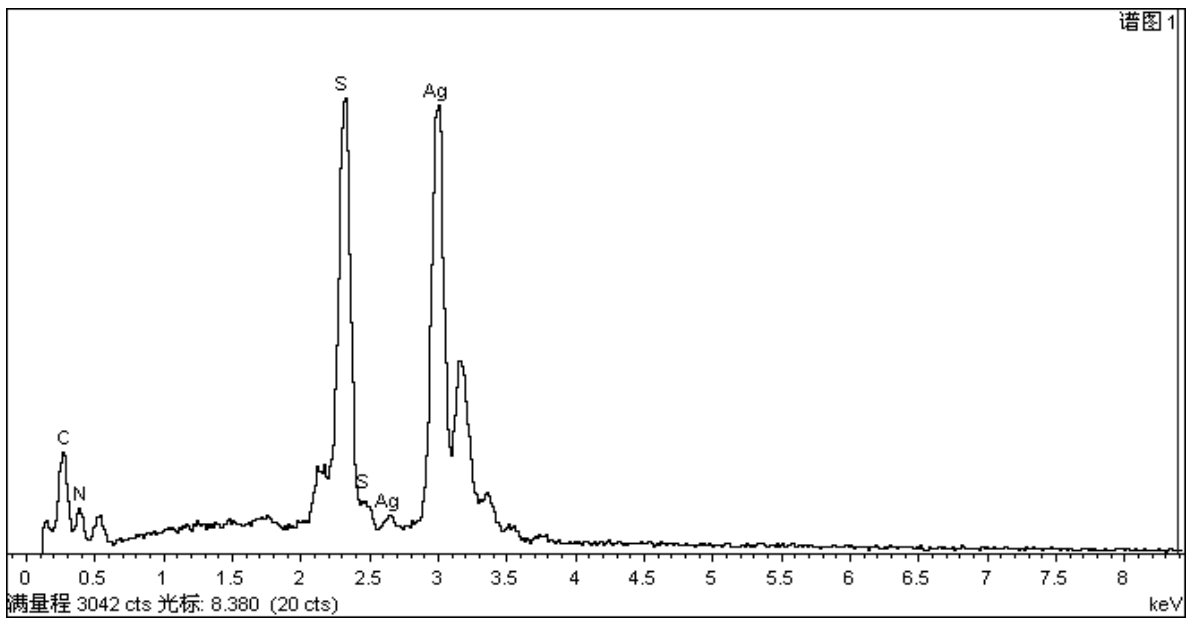


Figure S5: EDS spectrum of M₄ after five cyclic experiments.