Supporting information

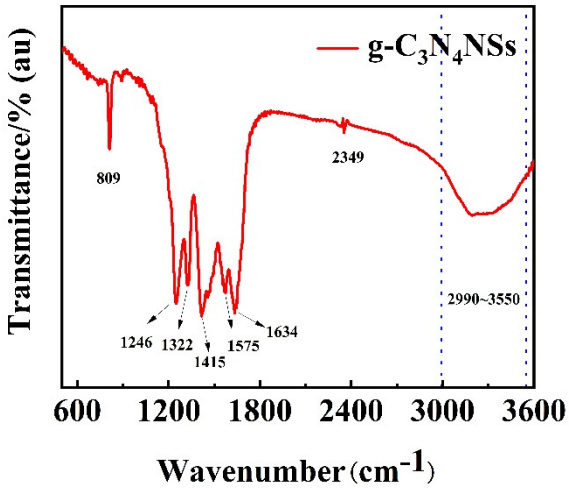

Figure S1. The IR spectra of g-C_3N_4NSs

The peak at 809 cm^{-1} belongs to triazine ring mode, which corresponds to condensed CN heterocycles. The absorption three bands at 1246, 1322 and 1415 cm^{-1} correspond to aromatic C–N stretching, while the bands near 1575 and 1634 cm^{-1} are attributed to C=N stretching. The broad band at 2990–3550 cm^{-1} corresponds to uncondensed terminal amino groups (–NH_2 or N=H groups). The IR results are consistent with the characteristic peaks of that in the references [1, 2], indicating that g-C_3N_4NSs has been successfully prepared.

[1] J. Xu, L. Zhang, R. Shi, Y. Zhu, Chemical exfoliation of graphitic carbon nitride for efficient heterogeneous photocatalysis, Journal of Materials Chemistry A, 1 (2013) 14766-14772.

[2] Z. Fu, Z. Ma, T. Yu, L. Bi, A first blue fluorescence composite film based on graphitic carbon nitride nanosheets/polyoxometalate for application in reversible electroluminescence switching, Journal of Materials Chemistry C, 7 (2019) 3253-3262.