**Supplementary Material**

**Enhanced photocatalytic performance and stability of visible-light-driven Z-scheme CdS/Ag/g-C$_3$N$_4$ nanosheets photocatalyst**

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**Fig. S1.** SEM images of CdS/Ag/g-C$_3$N$_4$ (a-c) and EDS spectra of CdS/Ag/g-C$_3$N$_4$ (d).

**Fig. S2.** $m/z$ of degrading tetracycline over CdS/Ag/g-C$_3$N$_4$ NSs composite photocatalyst: the initial tetracycline solution (a); degradation of tetracycline after 30 min (b); degradation of tetracycline after 70 min (c), degradation of tetracycline after 90 min (d).