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Supplementary Materials

Development and Mechanistic Studies of Ternary Nanocomposites (AgNPs-S-rGO@*g*-C_3N_4)for Hydrogen Production from Water Splitting to Yield Sustainable/Green Energy and Environmental Remediation

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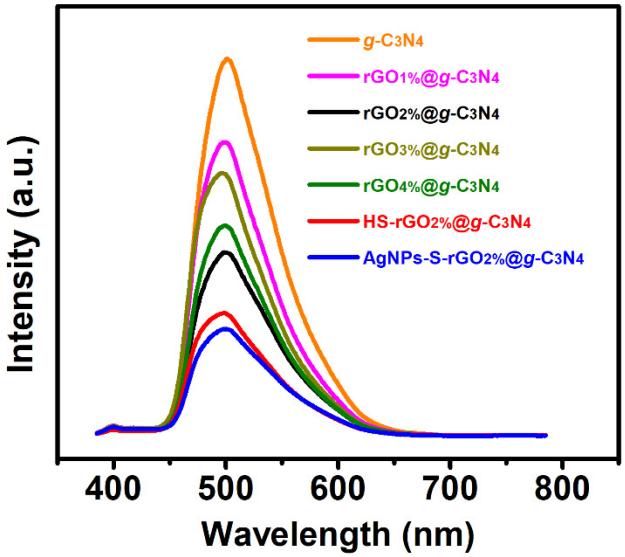

Figure S1. Comparison of PL spectra for pure *g*-C_3N_4, its composites with rGO at various concentrations of rGO, further its thiolated composites (HS-rGO$_{2\%}$@*g*-C_3N_4) and AgNPs decorated thiolated composites (AgNPs-S-rGO$_{2\%}$@*g*-C_3N_4).

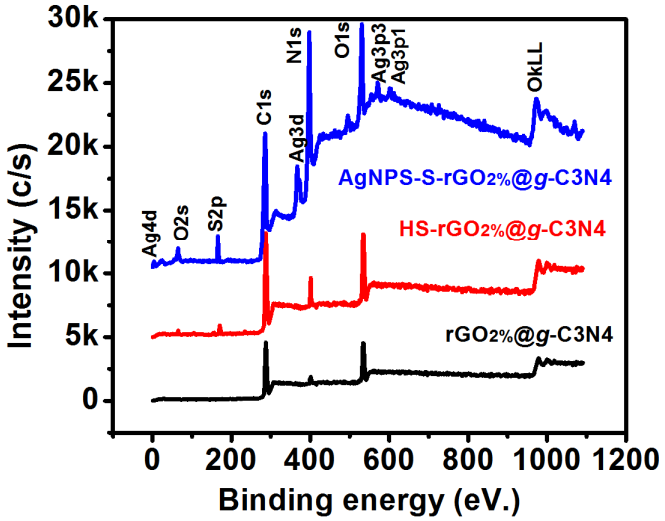

Figure S2. XPS survey spectra for rGO$_{2\%}$@*g*-C$_3$N$_4$, HS-rGO$_{2\%}$@*g*-C$_3$N$_4$, and AgNPs-S-rGO$_{2\%}$@*g*-C$_3$N$_4$.

Table S1. XPS Elemental composition of AgNPs-S-rGO$_{2\%}$@*g*-C$_3$N$_4$ Survey Spectra.

Element	Atomic Composition
C1s	49.8
N1s	25.9
O1s	18.3
Ag3P3	1.1
Ag3d3	0.7
S2p	4.2