

Electronic Supporting Information

Graphitic Carbon Nitride Nanosheets Decorated Zinc-Cadmium

Sulfide Type-II Heterojunctions for Photocatalytic Hydrogen

Production

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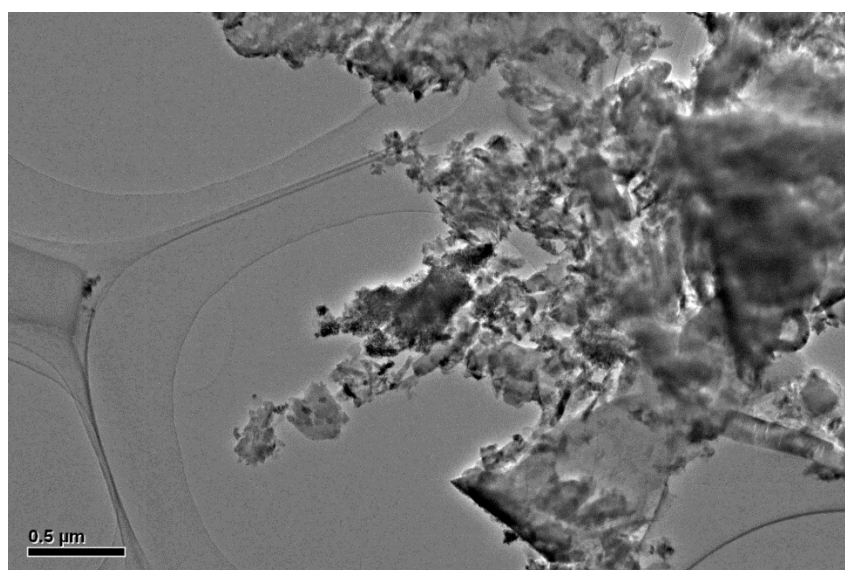


Figure S1:Low resolution TEM image of $g\text{-C}_3\text{N}_4\text{-ZnCdS}$ catalyst.

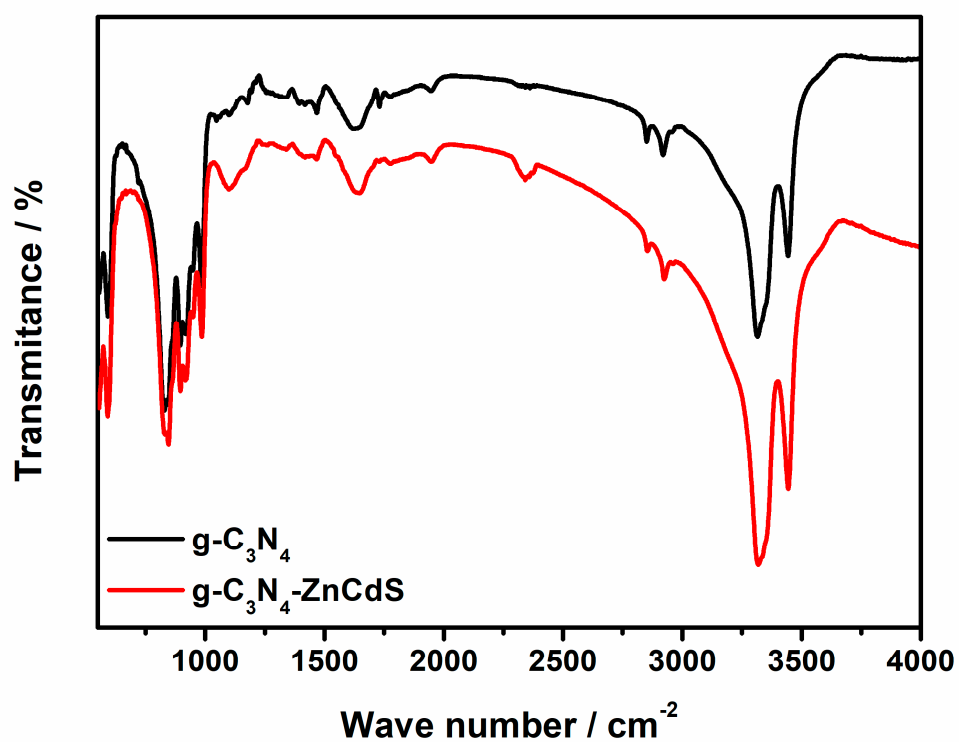


Figure S2. Fourier transform infrared (FTIR) spectra of $g\text{-C}_3\text{N}_4$ (black line) and $g\text{-C}_3\text{N}_4\text{-ZnCdS}$ (blue line) samples.

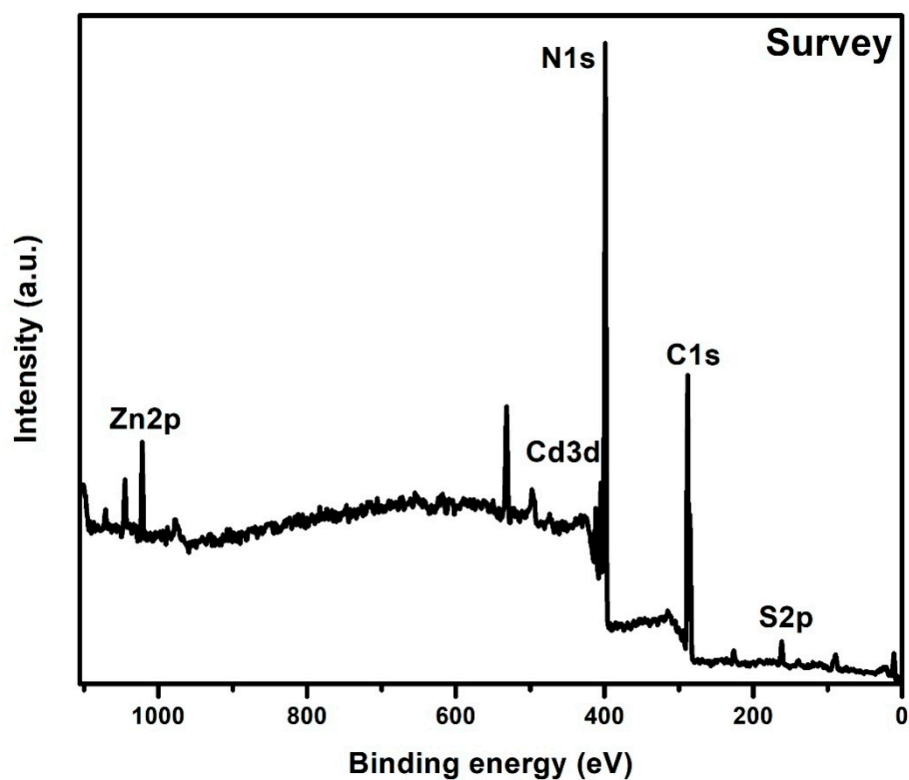


Figure S3: XPS full scan survey for $g\text{-C}_3\text{N}_4\text{-ZnCdS}$ catalyst.

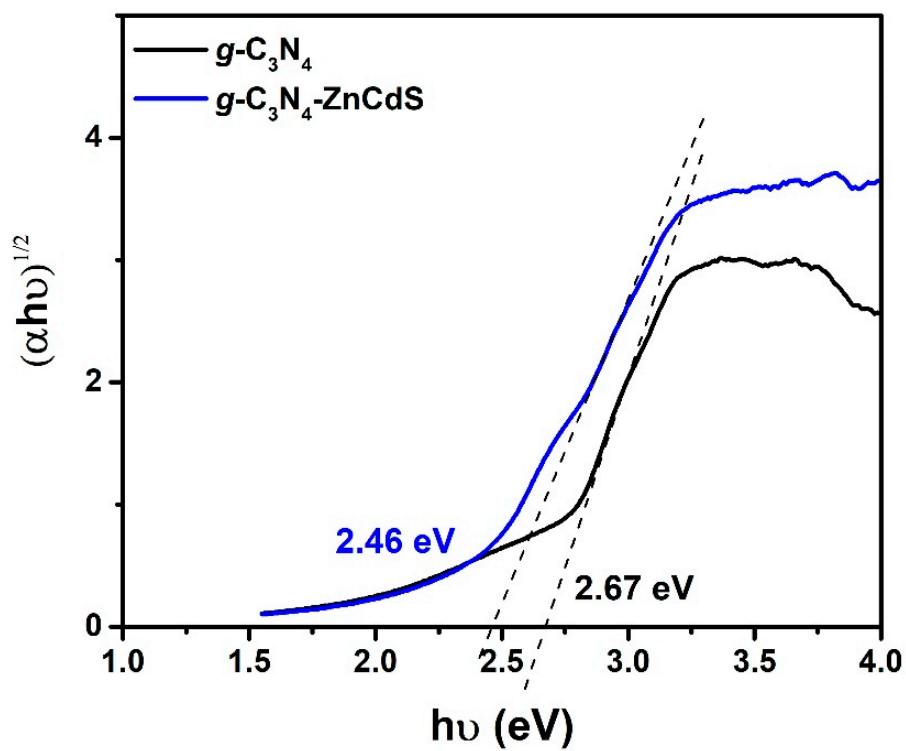


Figure S4: Tauc plot for $g\text{-C}_3\text{N}_4$ and $g\text{-C}_3\text{N}_4\text{-ZnCdS}$ heterostructure.

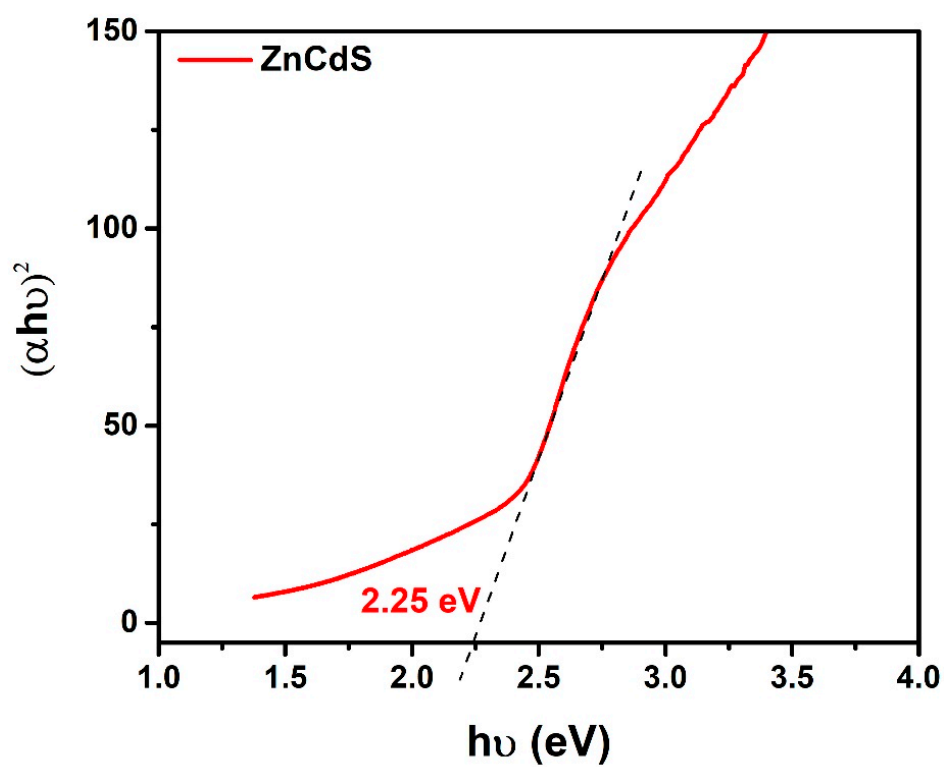


Figure S5: Tauc plot for ZnCdS nanoparticles.

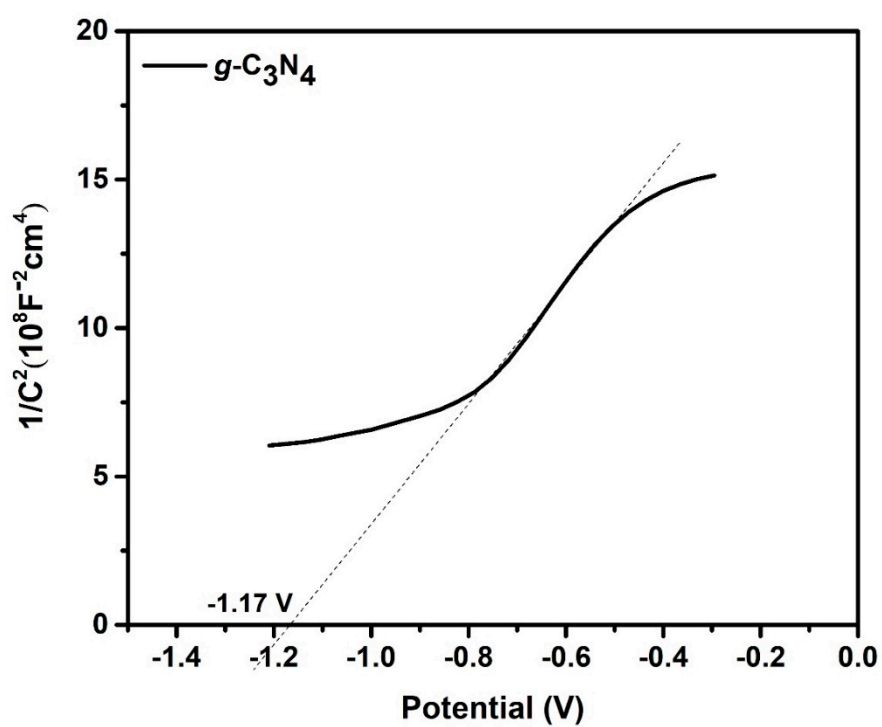


Figure S6: Mott-Schottky plot collected for g-C₃N₄.

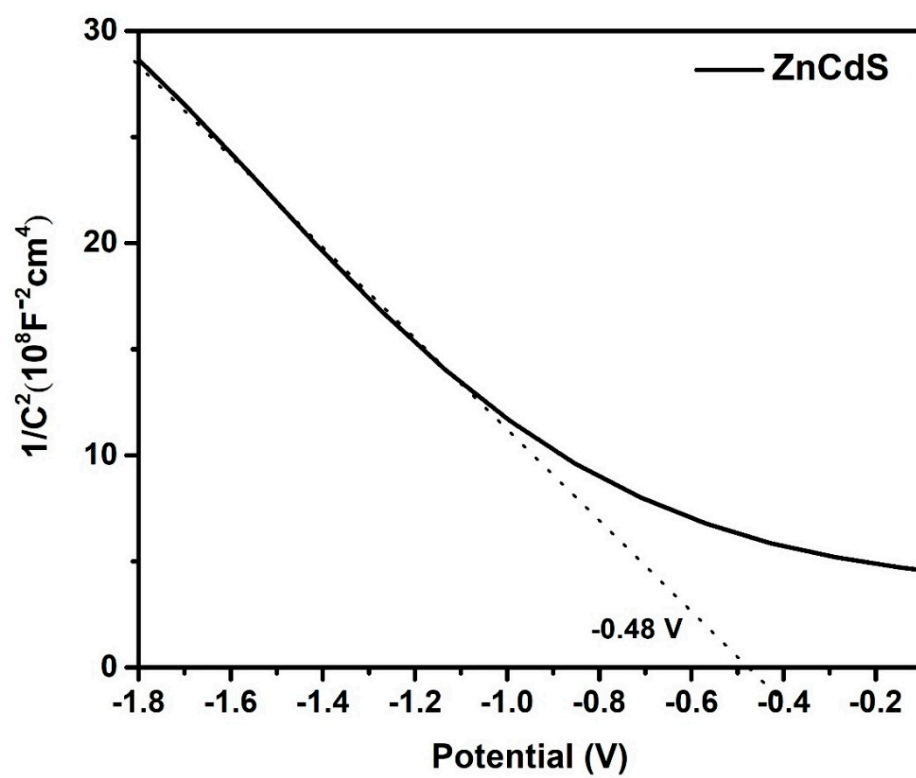


Figure S7: Mott-Schottky plot collected for ZnCdS nanoparticles.