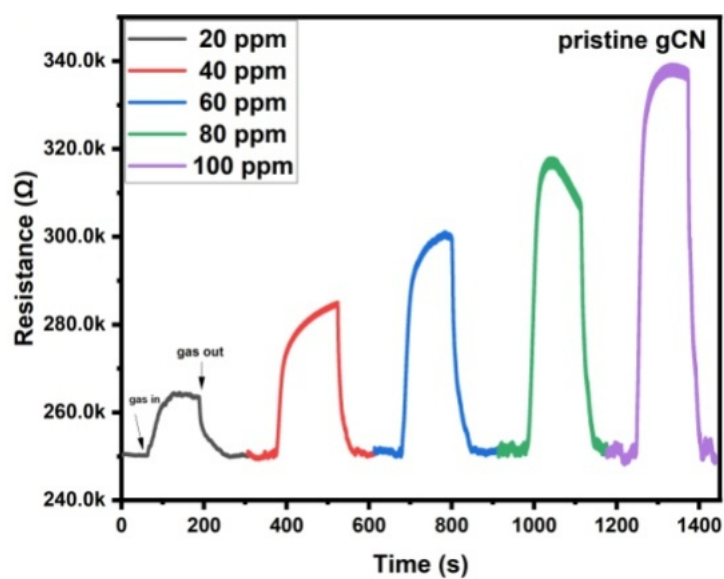
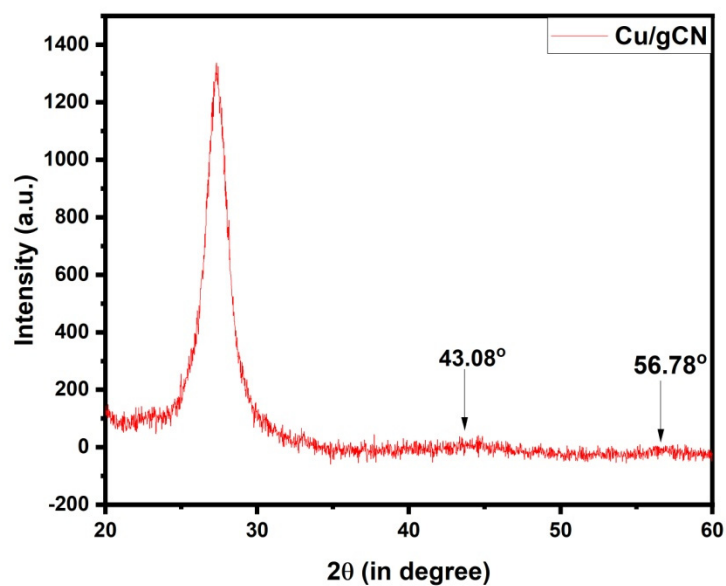


## Supplementary Data



**Figure S1:** Sensing response of pure gCN.



**Figure S2:** Detailed XRD spectra of Cu/gCN.

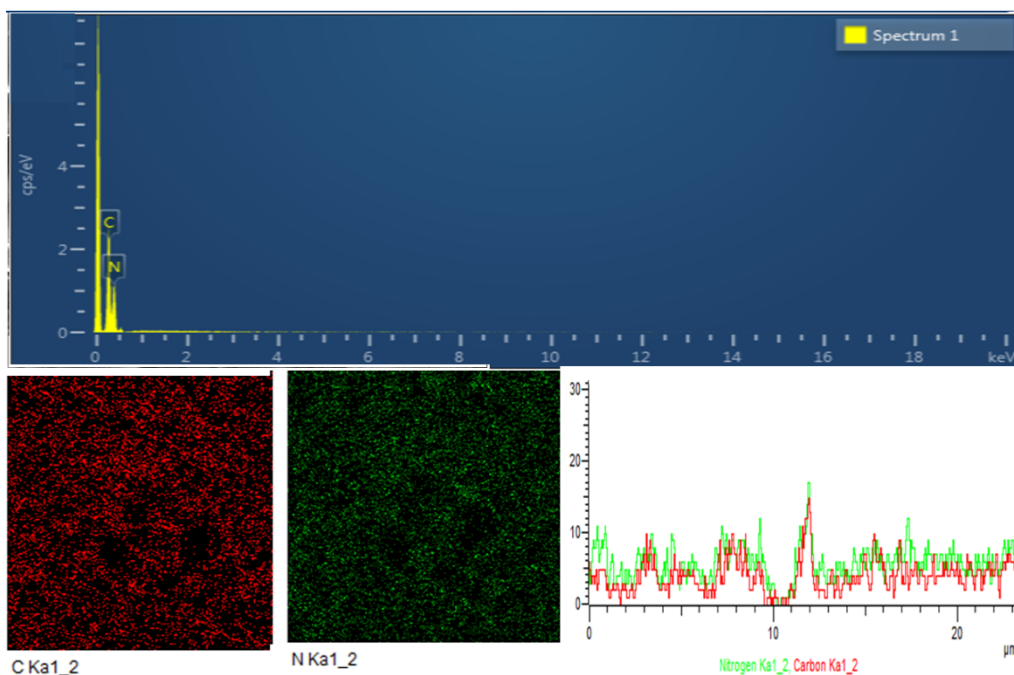


Figure S3: EDS and mapping of pure gCN.

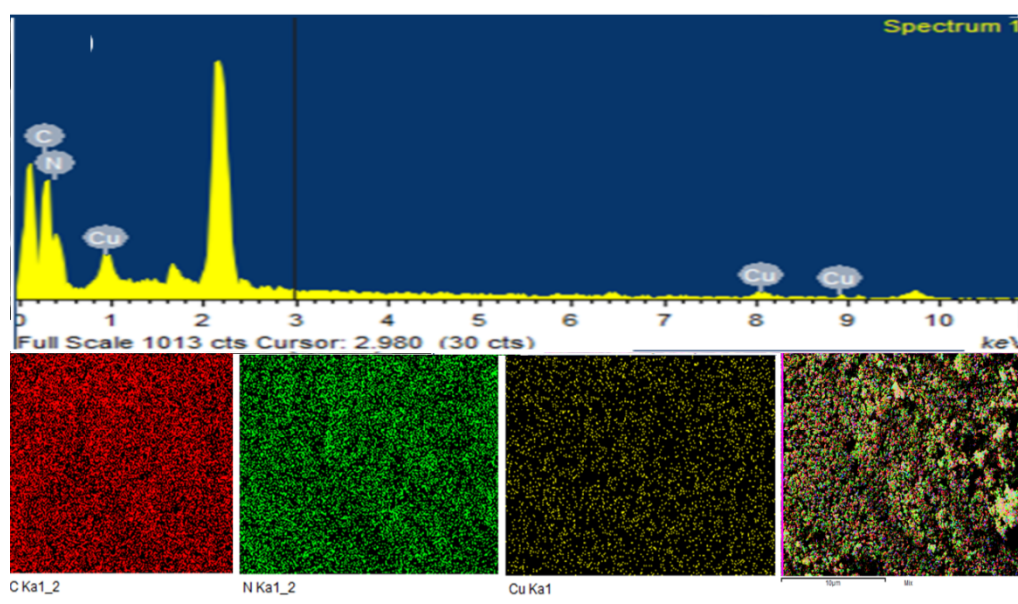


Figure S4: EDS and mapping of Cu/gCN.

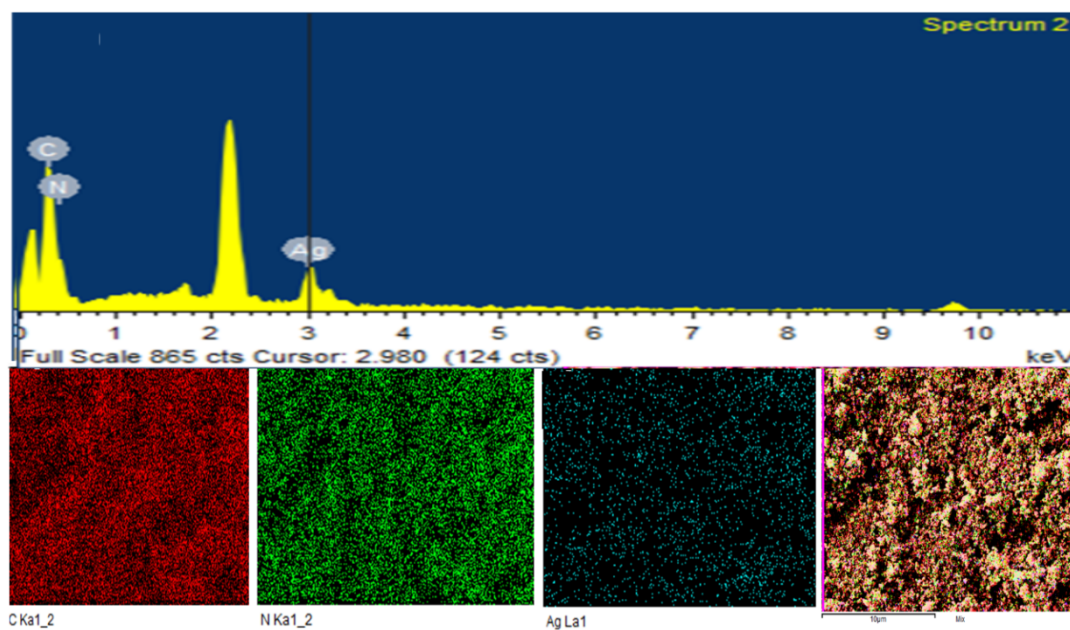


Figure S5: EDS and mapping of Ag/gCN.

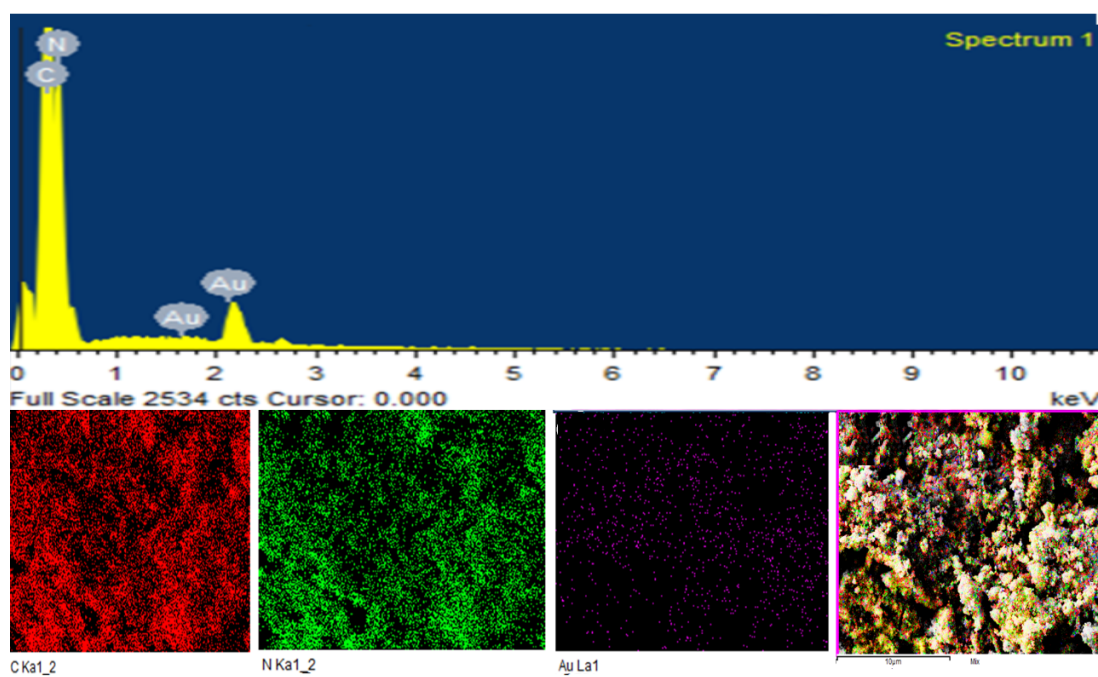


Figure S6: EDS and mapping of Au/gCN.