

Electronic Supplementary Information for New Journal of Chemistry

Supplementary Information for

Coumarin-Graphene Turn-On Fluorescence Probe for Femtomolar Level Detection of Copper (II)

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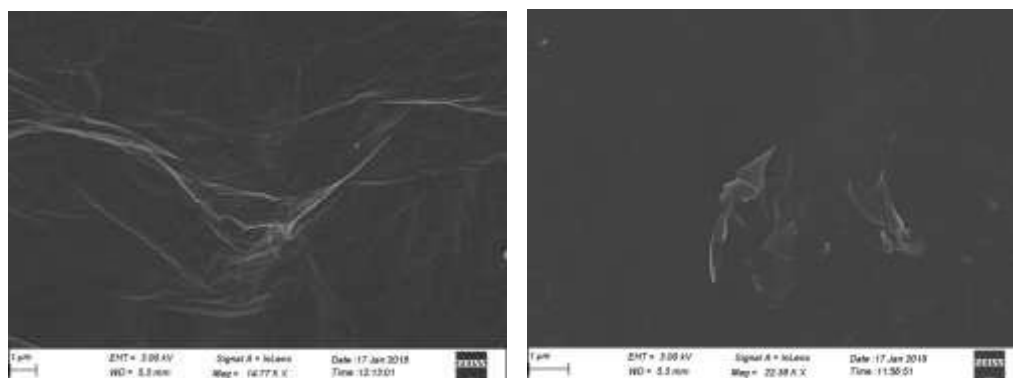


Figure S1. SEM images of reduced graphene oxide



Figure S2. TEM image of reduced graphene oxide

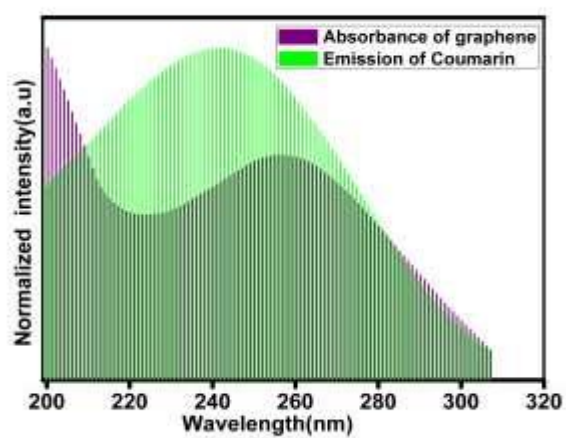


Figure S3. Illustration of probable fluorescence quenching of Coumarin

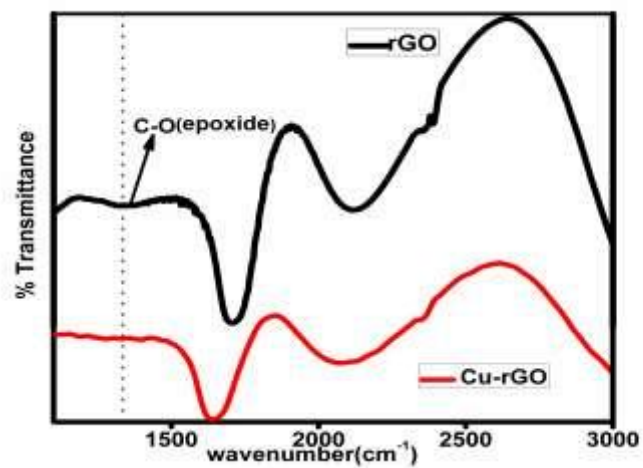


Figure S4. Comparison of FTIR spectra of pure rGO and rGO-Cu²⁺ species.

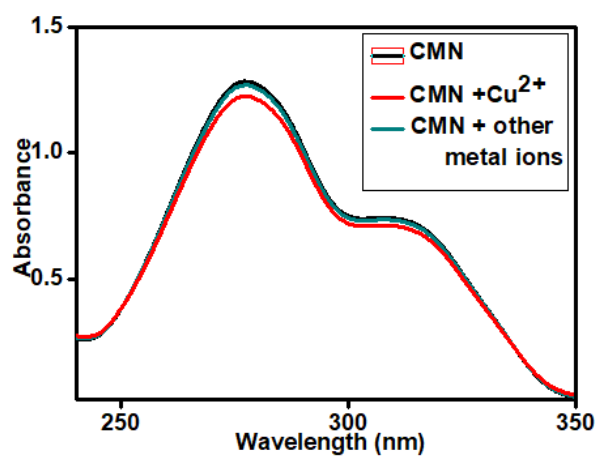


Figure S5. UV- Vis absorbance spectra showing slight interaction between Coumarin and Copper ions, which disturbs molecular flattening of the organic molecule on graphene surface.

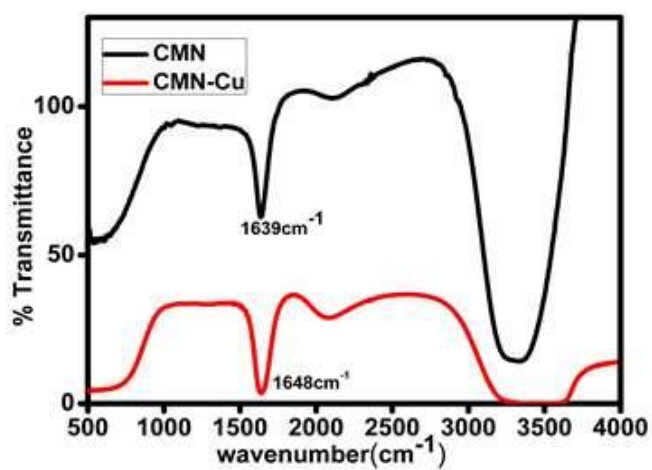


Fig.S6.FTIR spectra of Coumarin and Coumarin – Cu²⁺ system

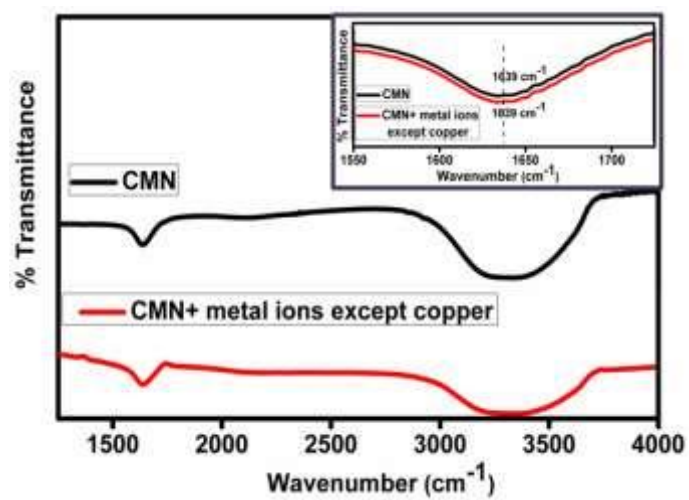


Fig.S7.FTIR spectra of Coumarin and Coumarin with metal ions except copper [Carbonyl band (inset)].