Supporting Information

Enhanced Fluorescent Intensity of Graphene Oxide - Methyl Cellulose Hybrid in Acidic Medium : Sensing of Nitro-aromatics

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Fig S1. PL spectra of pure GO and GMC at different concentration (a) at pH 7 (b) at 9.2



Fig S2. Fluorescence micrographs of GMC 1.7 (a, b, c) and GMC 3.4 (d, e, f) at pH 4, pH 7 and pH 9.2, respectively.



Fig S3. Time –resolved PL of GO (at pH4) and GMC3.4 at different pH.







Fig S5. Fluorescence titration of GMC solution at pH=4 with different micro molar benzoic acid (BA) solution.



Fig S6. Fluorescence titration of GMC solution at pH=4

with different micro molar aniline solution.



Fig S7. Fluorescence titration of GMC 0.85 solution at pH=4

with different micro molar nitophenol solution.



Fig S8. Fluorescence titration of GMC 0.85 solution at pH=4 with different micro molar 2.4-dinitophenol solution.





sensor at pH4.



Fig S10. AFM image and height profile of GO.