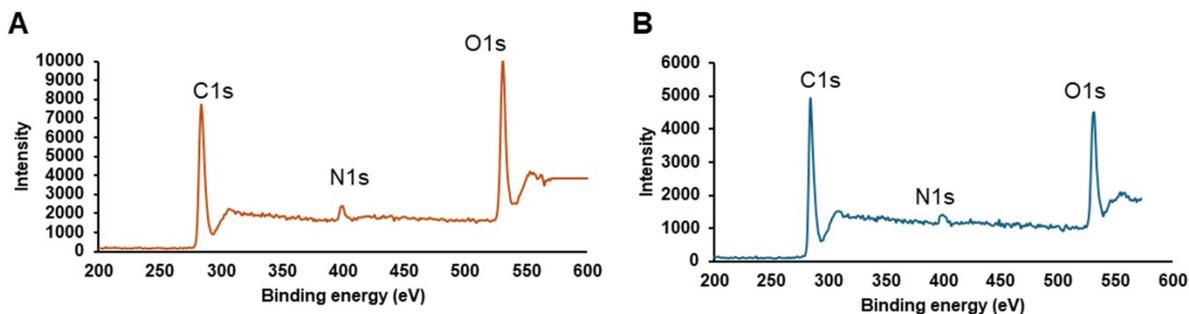


# 1 Fiber-optic thin film chemical sensor of 2, 4 Dinitro-1-chl

## 2 Supplementary Information

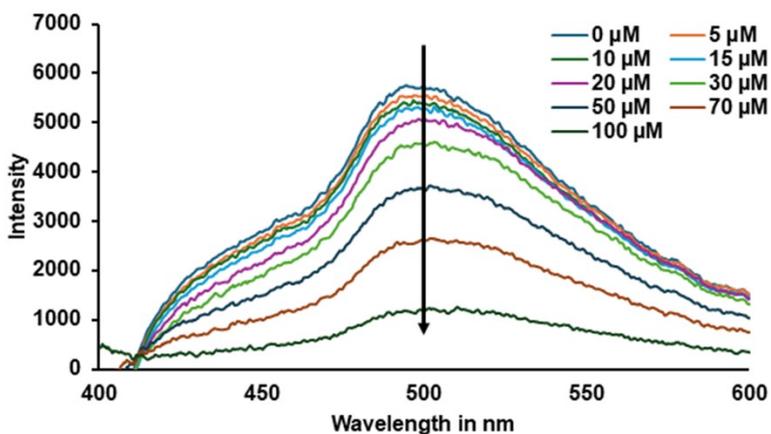


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4 **Figure S1:** XPS analysis of: A) CQDs-DNCB thin film, B) Bare CQDs.

5

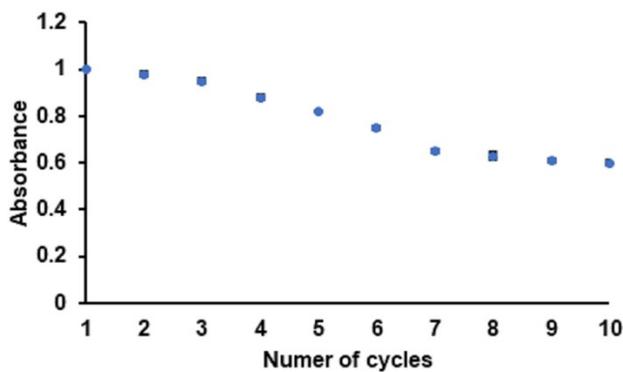
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8 **Figure S2:** Overlay spectra of hydrazine sensing with DNCB-CQDs thin film.

9

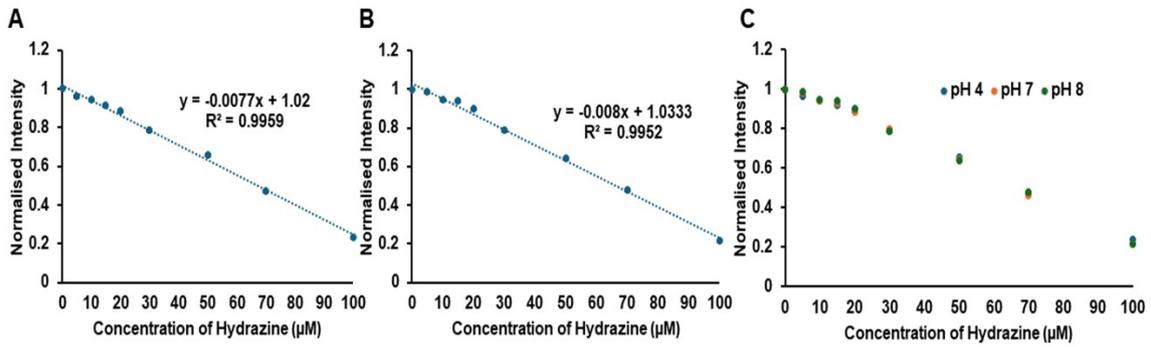


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11 **Figure S3:** Leaching study of DNCB from DNCB-CQDs thin film

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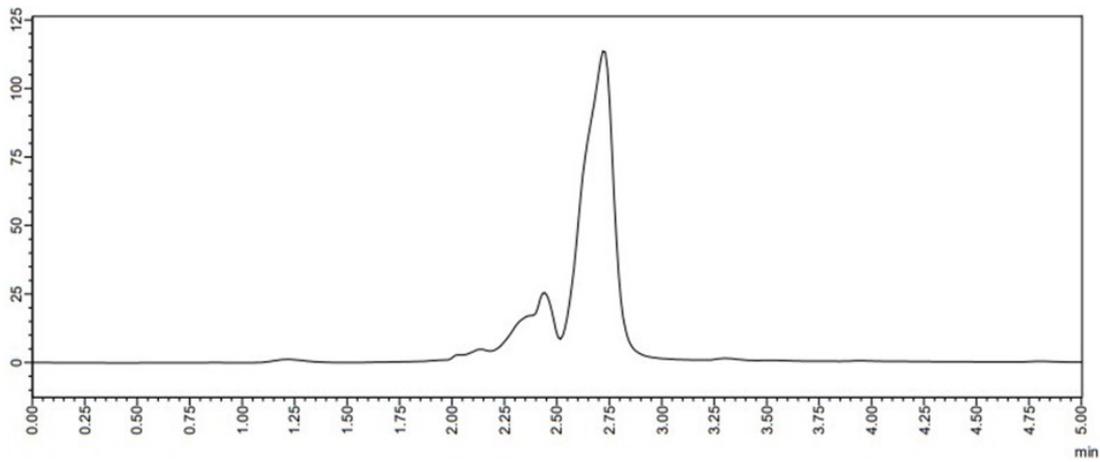
5 **Figure S4:** Calibration curve of different concentration of hydrazine with fluorescence

6 intensity of DNCB-CQDs thin film in different pH buffers: A) with pH 4 buffer, B) with pH

7 8 buffer, C) Comparison of calibration curve of different concentration of hydrazine with

8 fluorescence intensity of DNCB-CQDs thin film in different pH buffers pH 4, pH 7 and pH 8.

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**Figure S5:** HPLC Retention time curve of Hydrazine detection.