Supplementary Figures

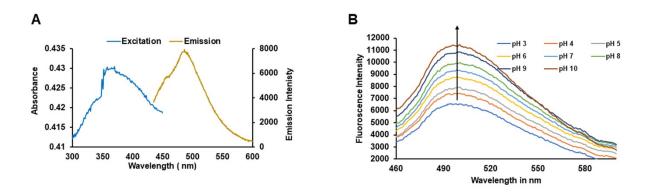


Fig S1: Optical spectra of Bare CQDs and pH response overlay of bare CQDs

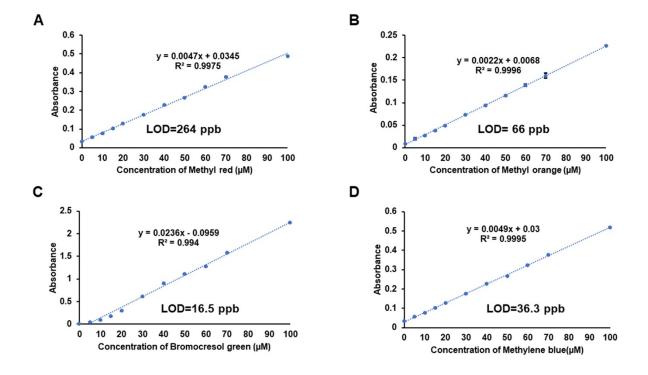


Fig. S2: Calibration curve of detection of various dyes with UV-Vis spectrometer.

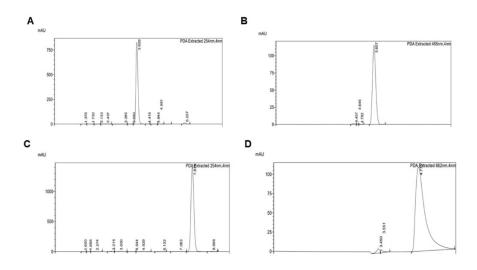


Fig. S3: HPLC retention time graph of: A) Bromocresol green, B) Methyl orange, C) Methyl red, D) Methylene blue

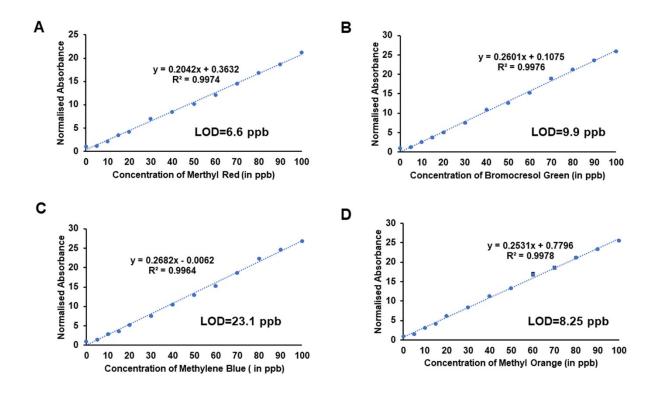


Fig. S4: Calibration curve of detection of various dyes with HPLC.

Fig. S5: Chemical structure of Dyes: A) Methyl Red, B) Bromocresol Green, C) Methyl Orange,
D) Methylene Blue

Resolution =
$$\frac{Standard\ Deviation}{Slope}$$

• Equation S2: Limit of Detection $(LOD) = 3.3 \times Resolution$

% Recovery =
$$\frac{Measured\ Value}{Actual\ Value} \times 100$$