Supporting Information

for

Synthesis of hydrophobic photoluminescent carbon nanodots by using L-tyrosine and citric acid through a thermal oxidation route

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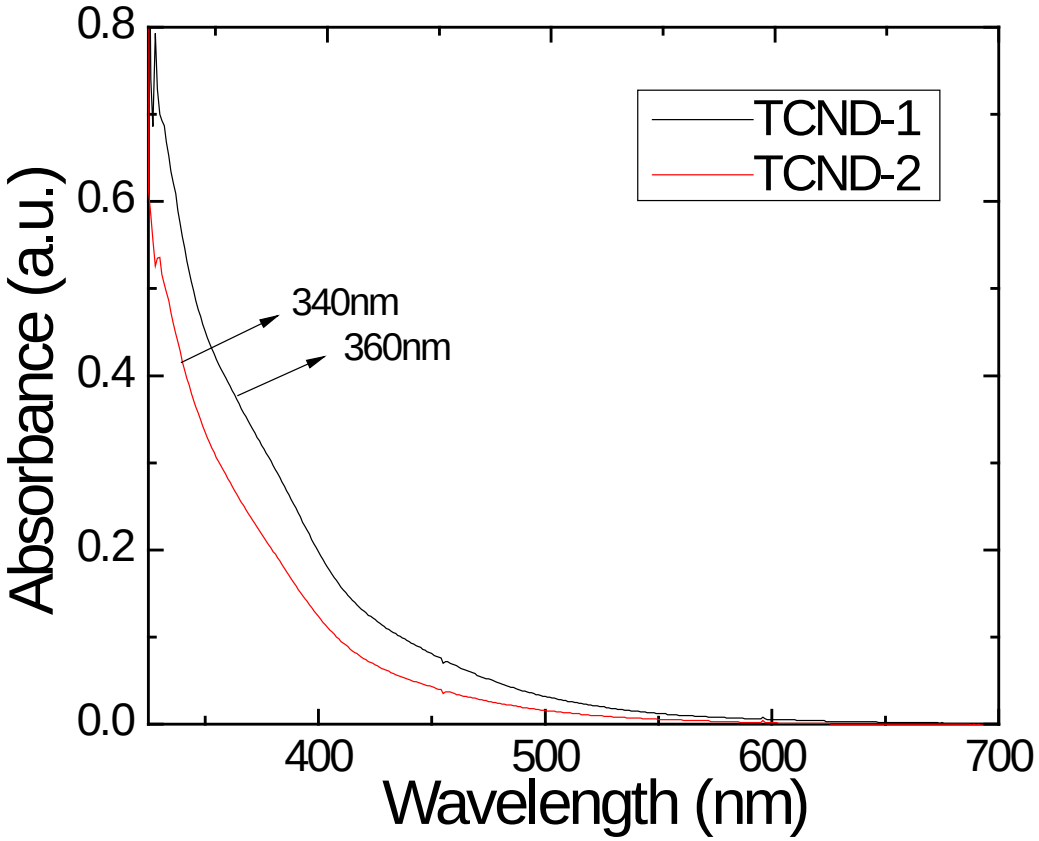

Figure S1: Absorption spectra of TCND-1 and TCND-2.

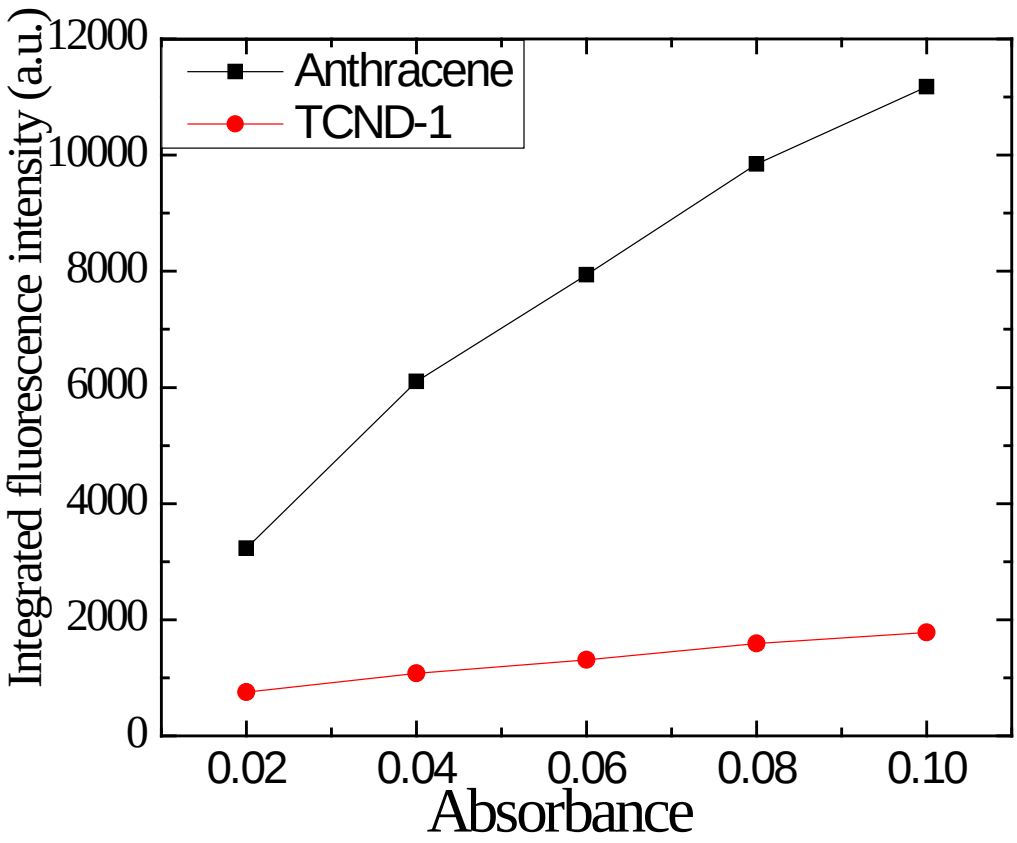

Figure S2: Plot for the measurement of the quantum yield of TCND-1 using anthracene as reference in ethanol at an excitation wavelength of 340 nm.

Formula used to measure the quantum yield (Φ) of TCND-1:

$$\Phi_{\text{TCND-1}} = \frac{\Phi_{\text{anthracene}} \times \text{gradient}_{\text{TCND-1}}}{\text{gradient}_{\text{anthracene}}}$$

$$= 0.27 \times \frac{\text{gradient}_{\text{TCND-1}}}{\text{gradient}_{\text{anthracene}}}$$

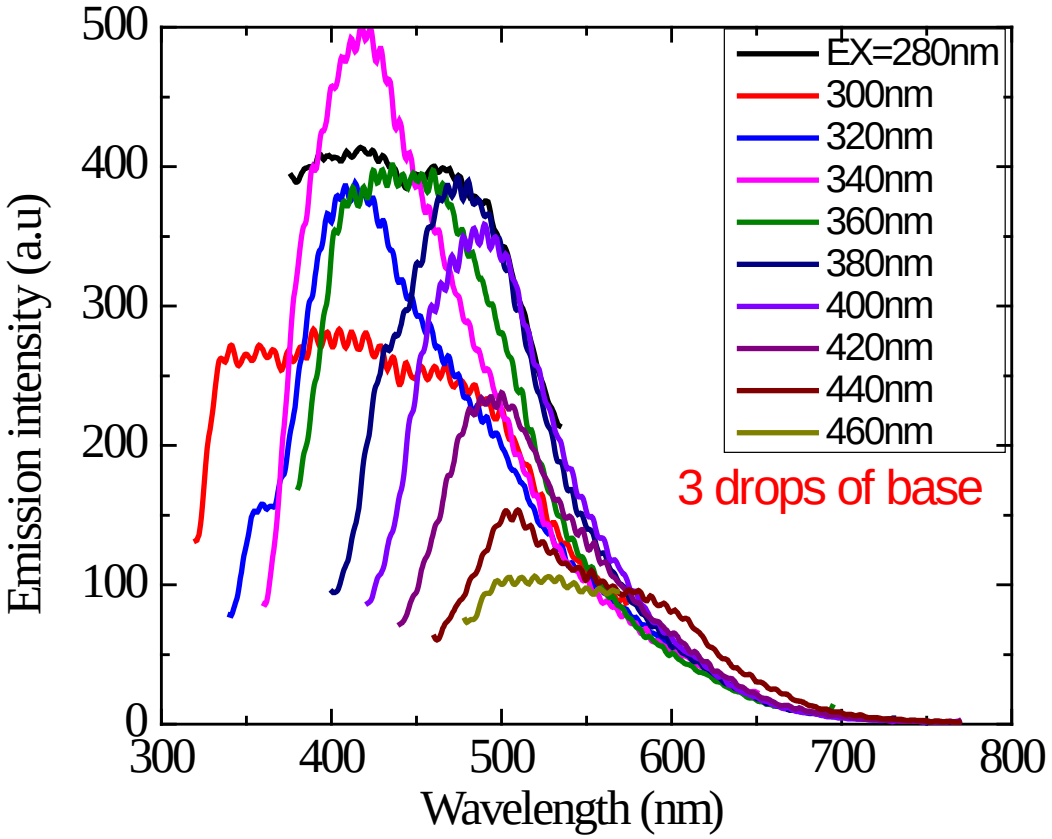

Figure S3: Recorded PL emission spectra of TCND-1 in ethanol after addition of 3 drops of base at different excitation wavelength.

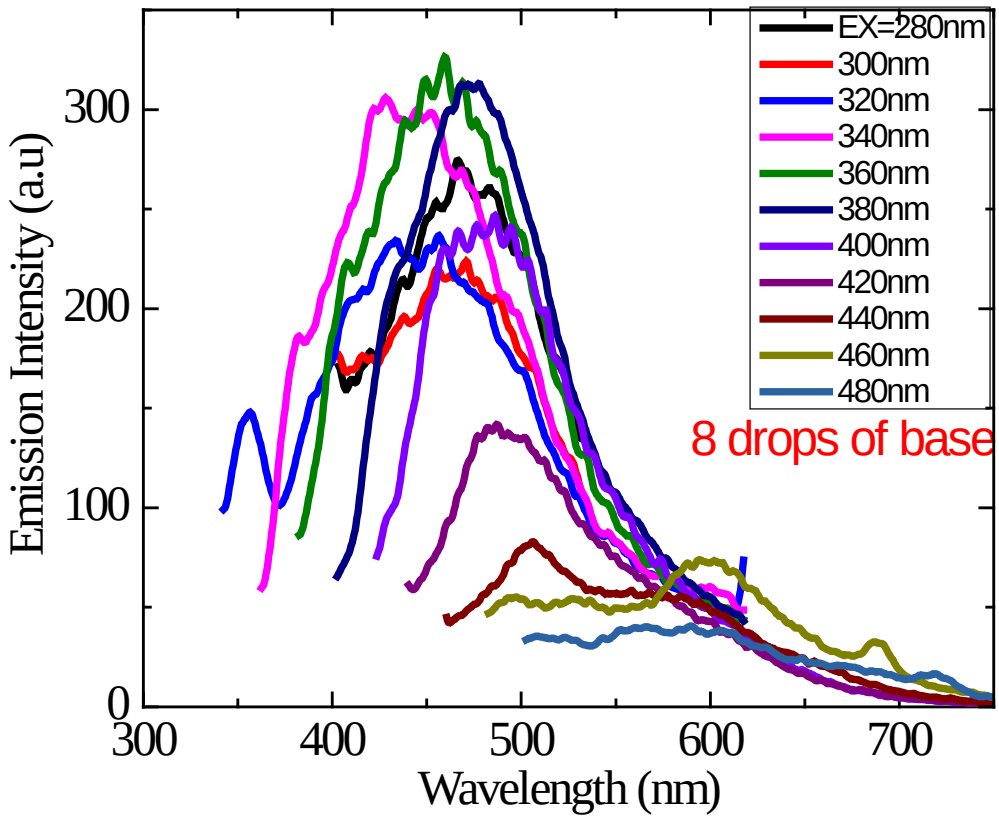

Figure S4: Recorded emission spectra of TCND-1 in ethanol after addition of 8 drops of base at different excitation wavelength.