Supporting Information

# Scalable synthesis of organic-soluble carbon quantum dots: superior optical properties in solvents, solids, and LEDs

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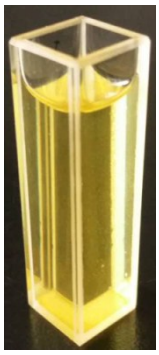

**Fig. S1** Photograph of a clear, yellow TNP solution in toluene.

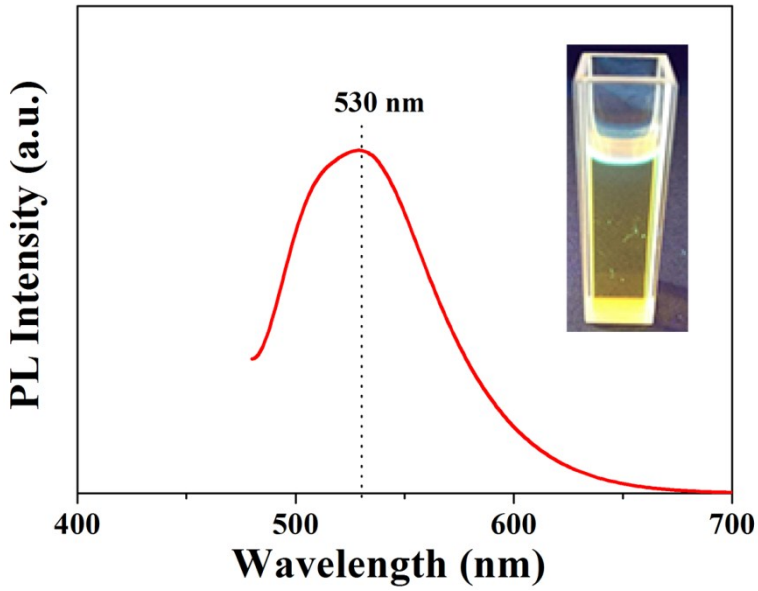


**Fig. S2** Fluorescent spectrum of a product via solvothermal treatment of pristine pyrene in toluene at 180 °C for 12h (Inset: photograph of this product solution under UV irradiation).

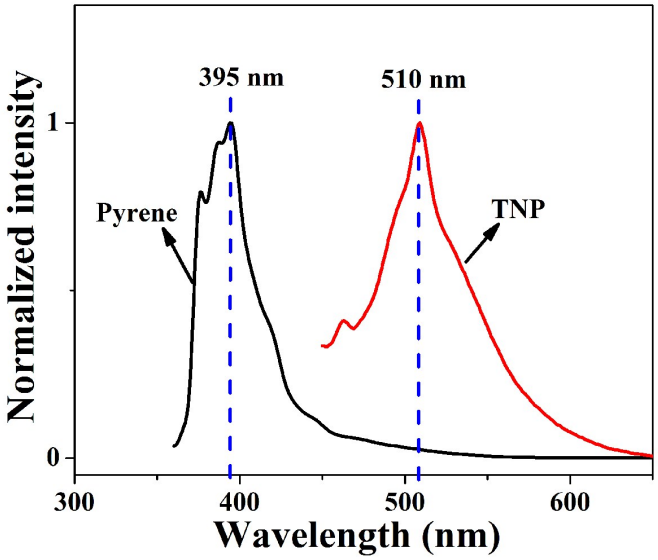


**Fig. S3** Normalized PL spectra of pyrene and TNP in toluene solutions.

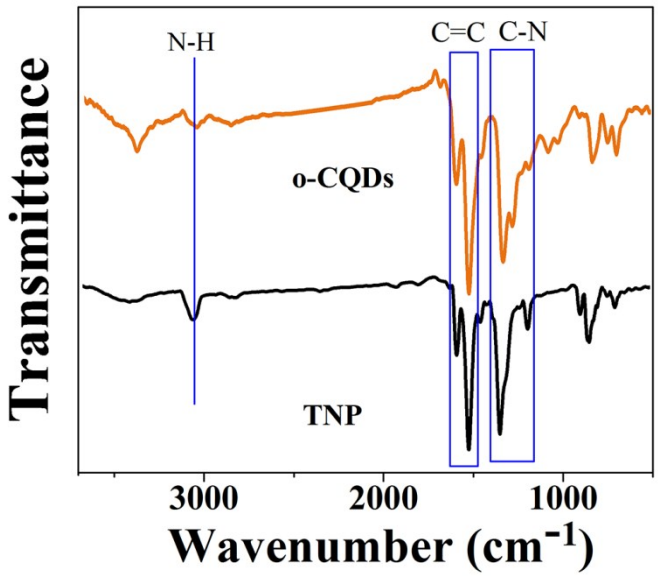


**Fig. S4** The FT-IR spectra of o-CQDs.

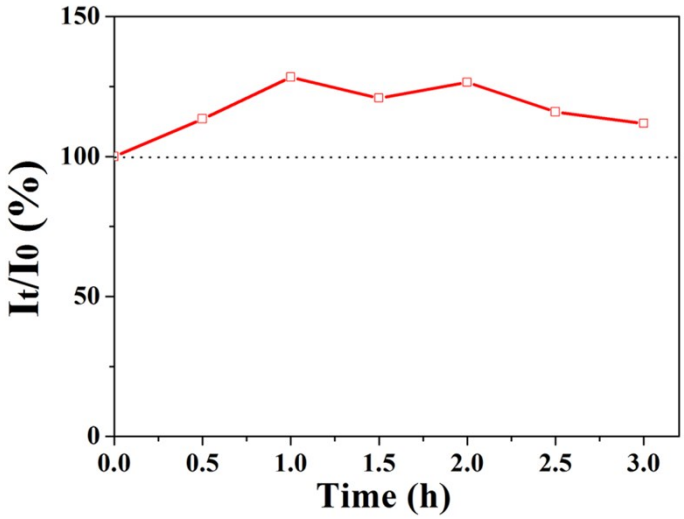


**Fig. S5** Photostability test of o-GQDs under a 365-nm UV light (100 W).