Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Size controlled synthesis of carbon quantum dots using hydride reducing agents

*Keith Linehan and Hugh Doyle**

Tyndall National Institute, University College Cork, Lee Maltings, Cork, Ireland.

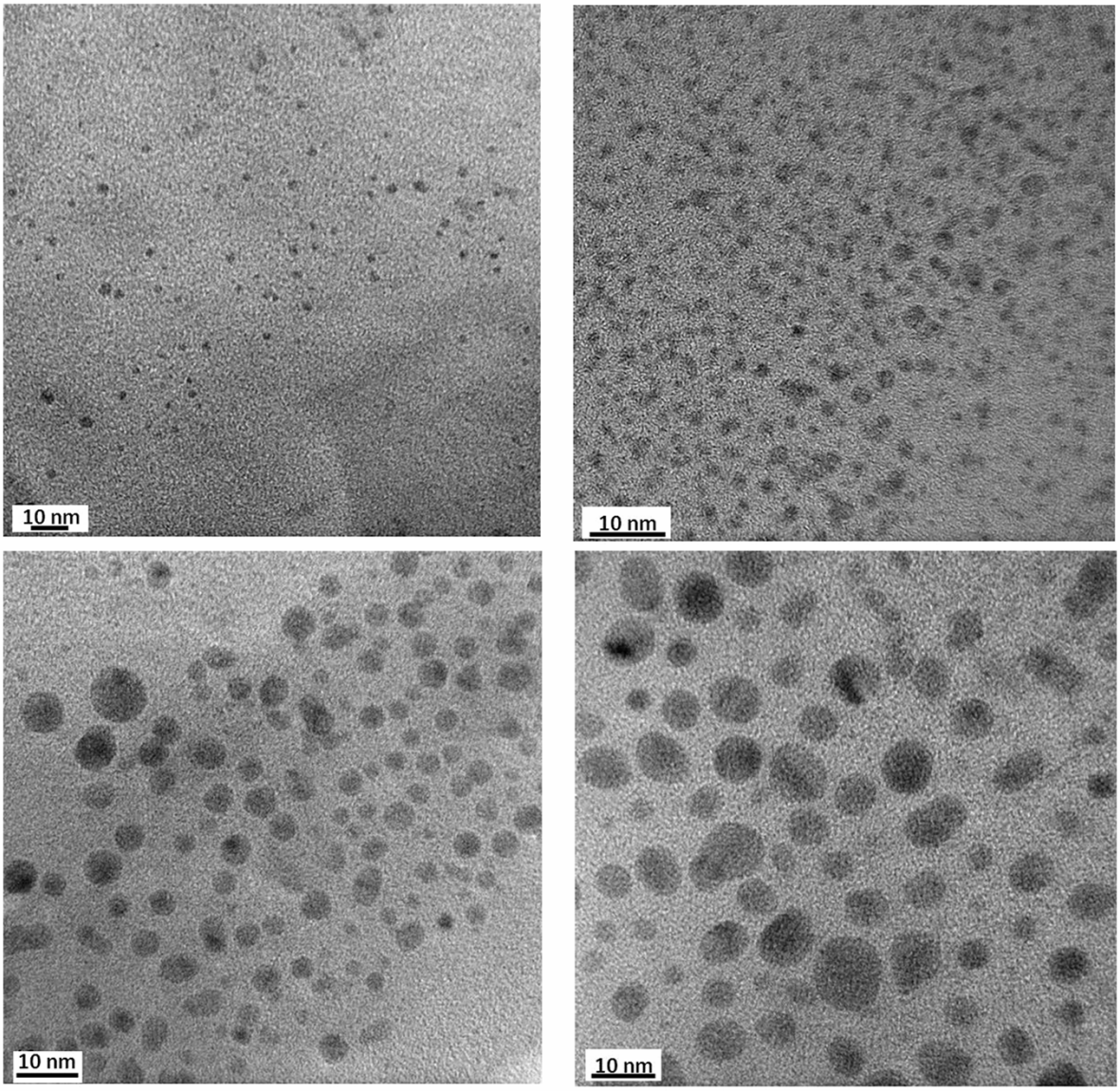

Fig. S1 Low magnification TEM images of the CQDs.

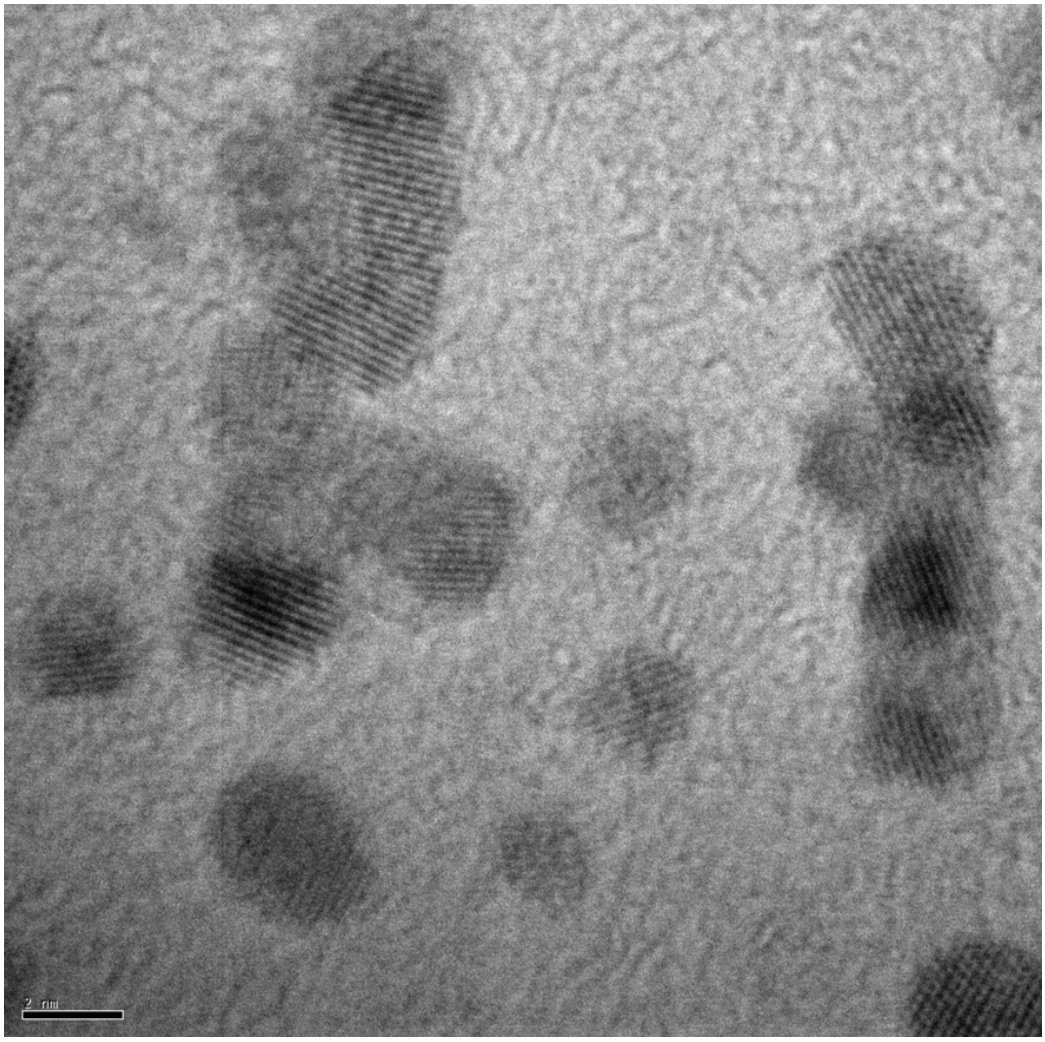

Fig. S2 High resolution TEM image of the CQDs synthesised in the presence of lithium borohydride.

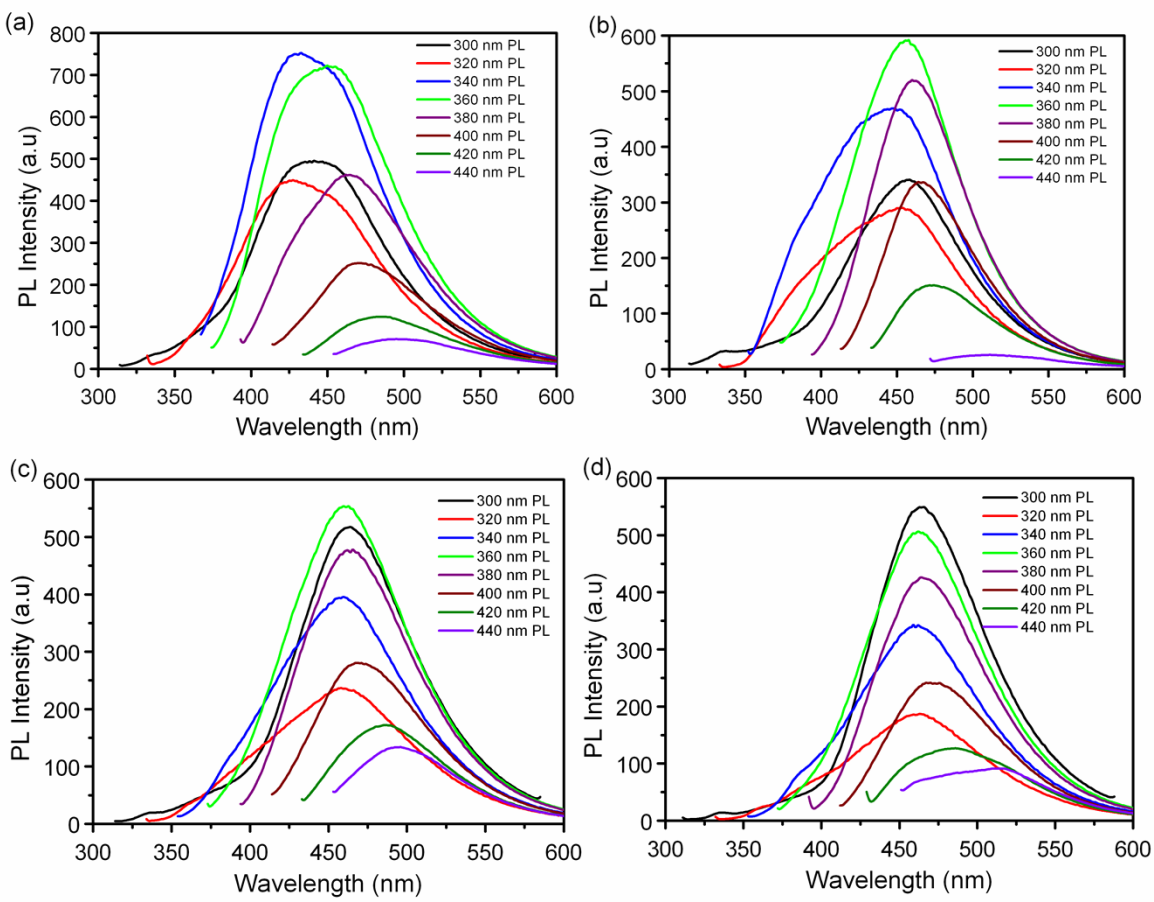

Fig. S3 Photoluminescence spectra of the amine terminated carbon quantum dots synthesised using the different hydride reducing agents a) lithium aluminium hydride, b) Superhydride, c) L-Selectride, and d) lithium borohydride in water.

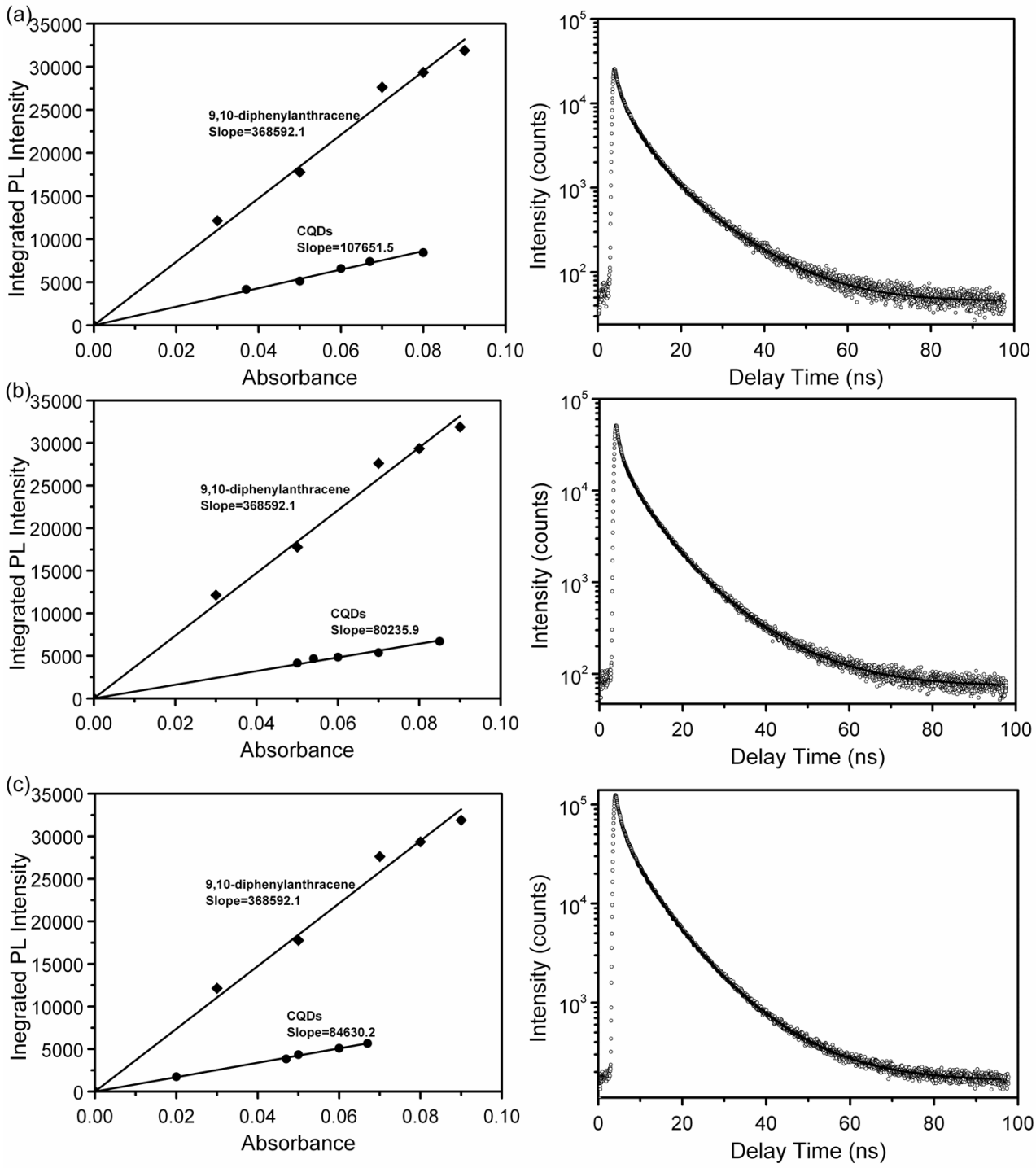

Fig S4. Integrated PL intensity versus absorbance, and corresponding time resolved PL spectra, of dilute aqueous dispersions of CQDs synthesized using a) Superhydride, b) L-Selectride, and c) lithium borohydride.