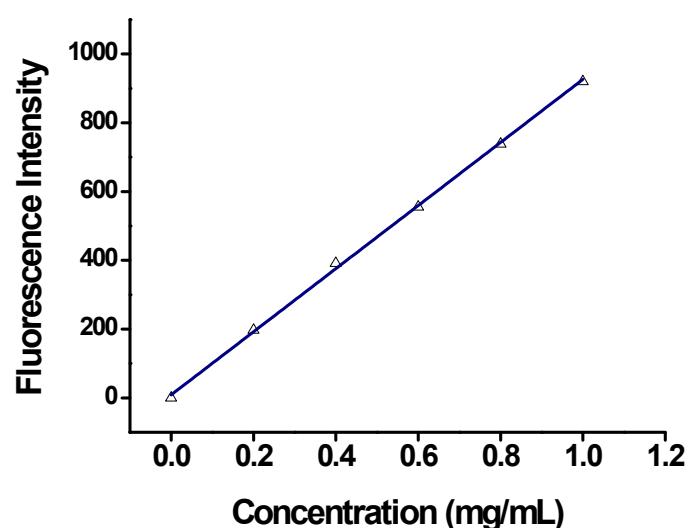
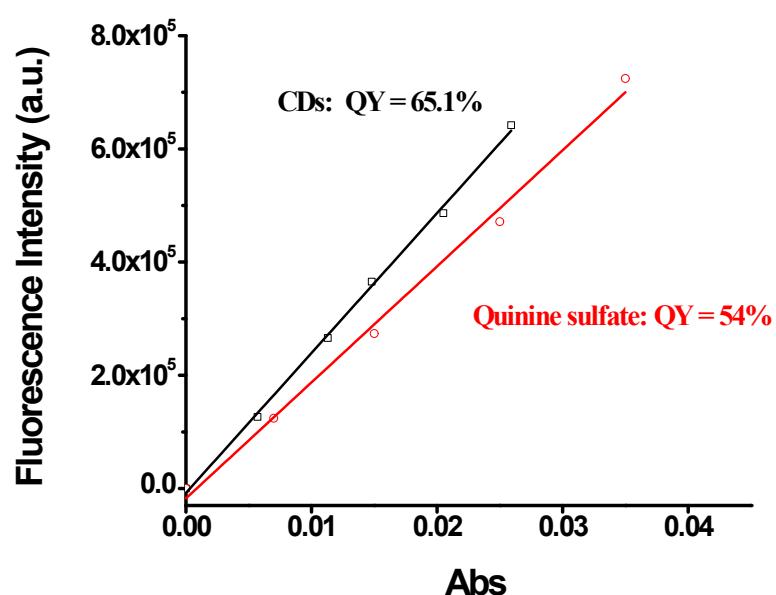


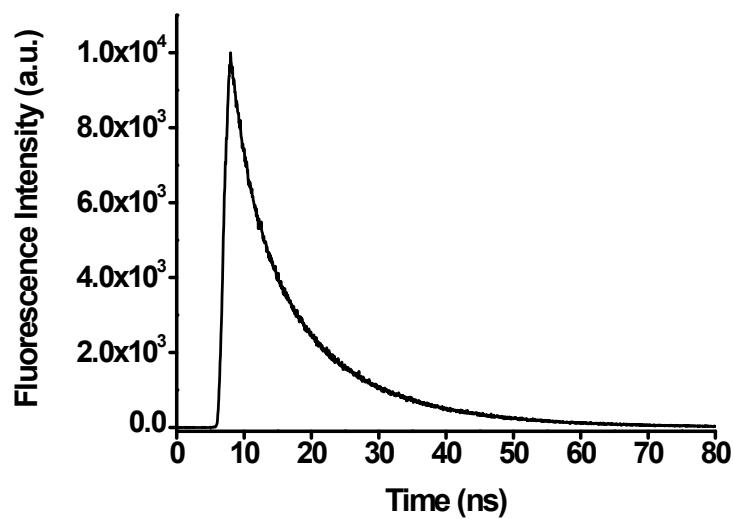
## Supplementary Information



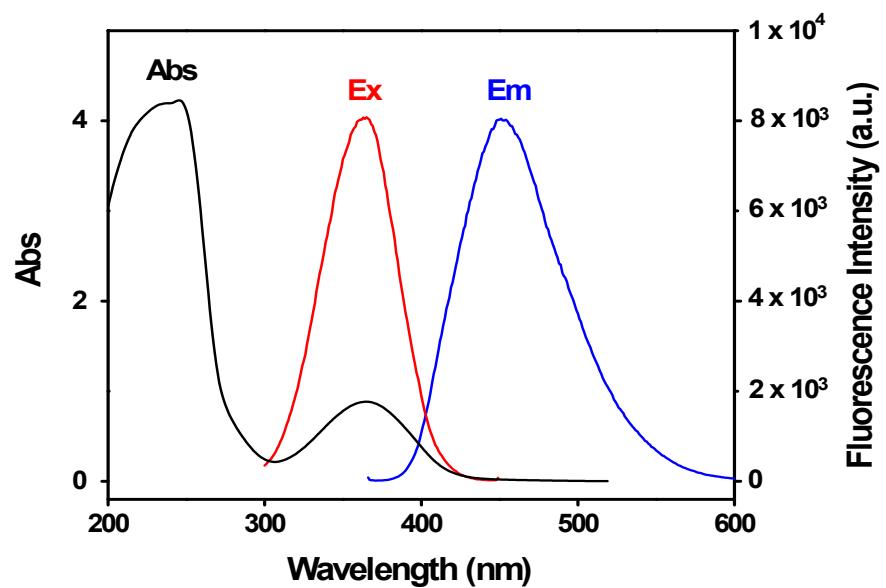
**Fig.S1.** The standard curve of CDs.



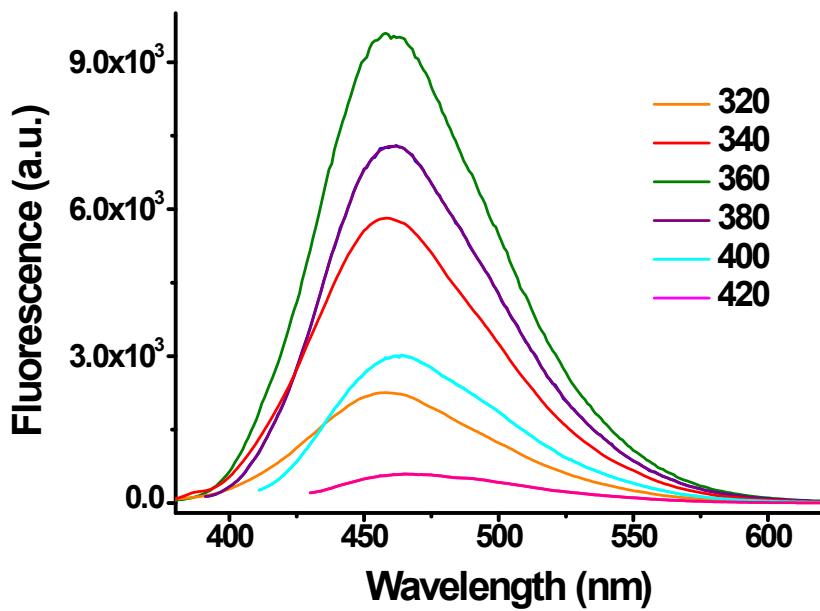
**Fig.S2.** QY measurement of CDs.



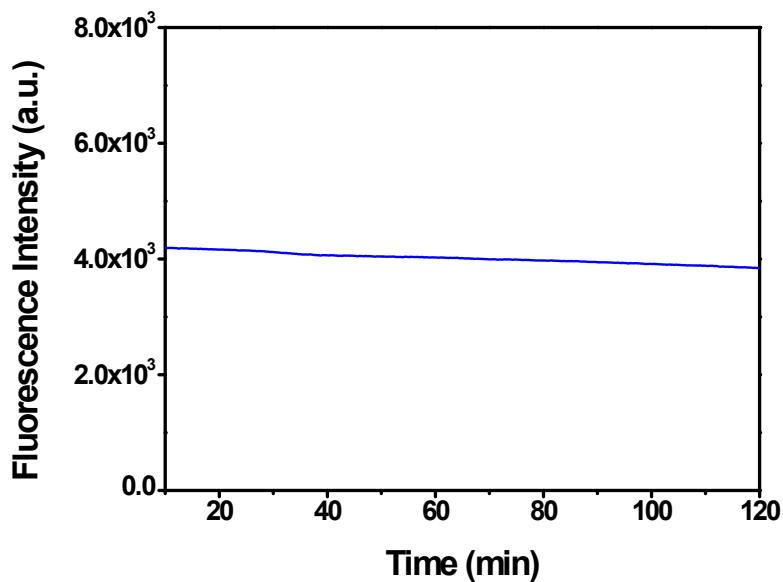
**Fig.S3.** Fluorescence decay profile of CDs.



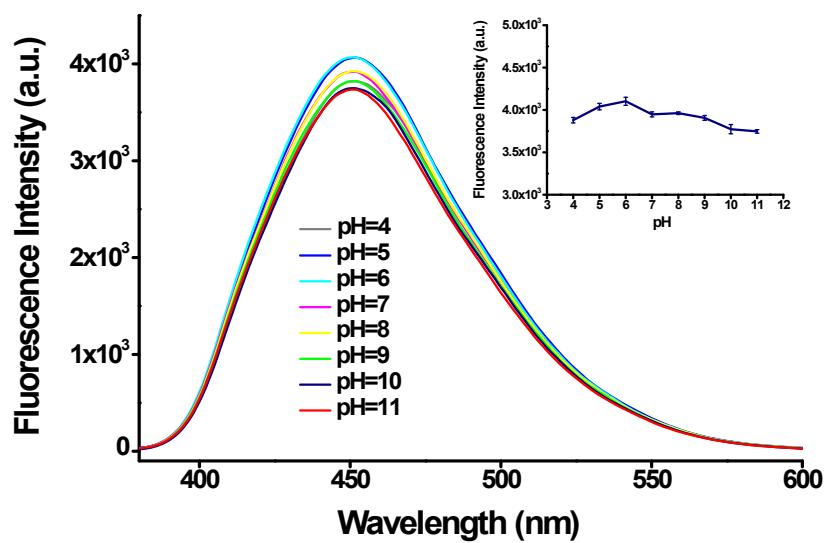
**Fig. S4.** UV-vis absorption and fluorescence excitation and emission spectra of CDs.



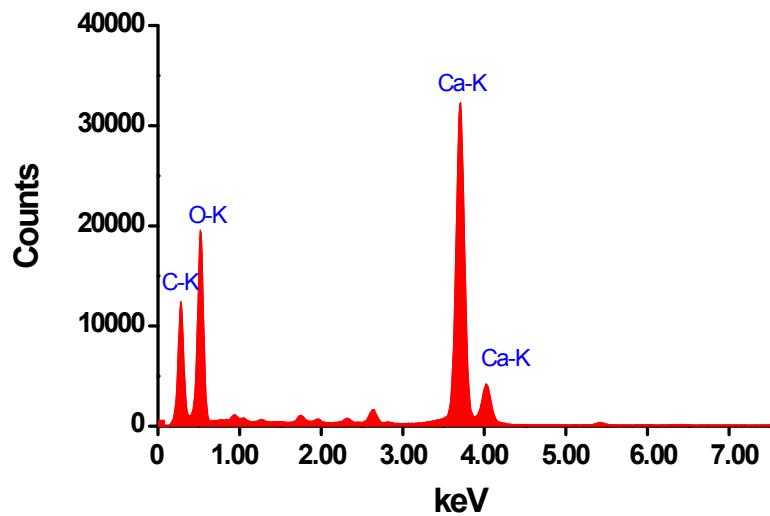
**Fig.S5.** Fluorescence emission spectra of CDs at different excitation wavelengths.



**Fig.S6.** Fluorescence intensity of CDs against excitation time ( $\lambda_{\text{exc}} = 360$  nm).



**Fig. S7.** Effect of pH on the fluorescence intensity of CDs.



**Fig. S8.** EDS of  $\text{CaCO}_3/\text{CDs}$  hybrid composites.