

Supporting Information

Highly Luminescent Nitrogen Doped Carbon Dots and Their Protective Effect against Oxidative Stress on Cells

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Table S1 Other reaction conditions for the preparation of C-dots

Serial	Raw Materials		QY (%)	λ_{em} (nm)
CD1	Sucrose	——	3.1	517.0
CD2	Sucrose	H ₂ MSA	5.5	544.6
CD3	Sucrose	NAC	6.6	523.6
CD4	Sucrose	AchCl	2.0	528.0
CD5	Sucrose	Tris	11.3	450.0
CD6	CA·H ₂ O	Tris	52.0	430.0
CD7	CA·H ₂ O	NAC	47.1	425.0

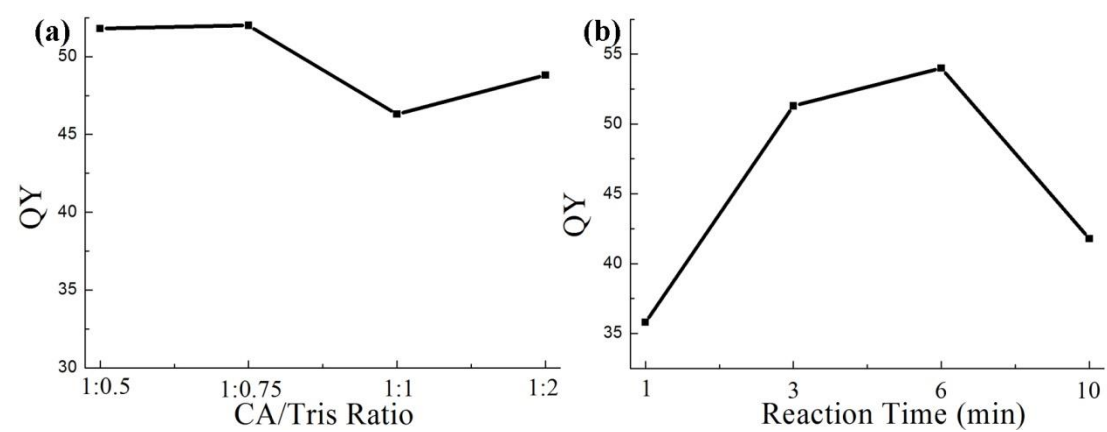


Figure S1 Effects of CA/Tris ratio (a) and reaction time (b) on the QY of C-dots.

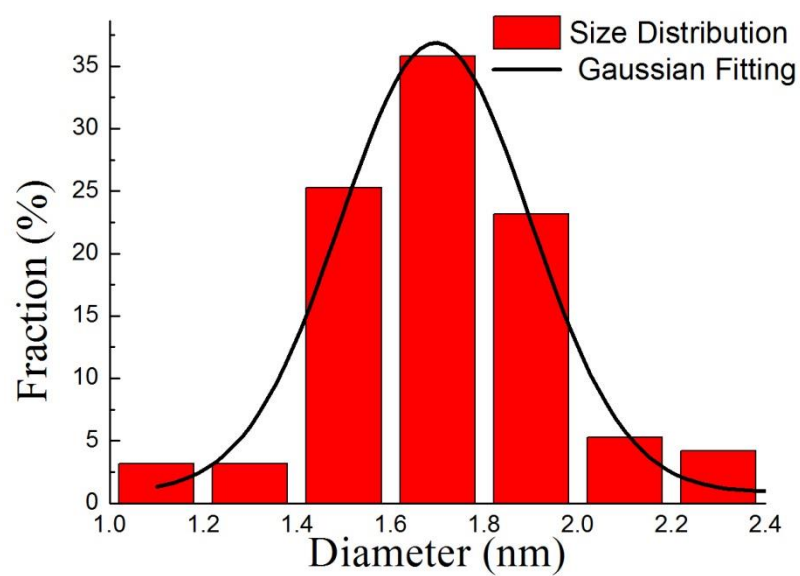


Figure S2 Size distribution of C-dots. 200 particles were counted for statistic analysis.

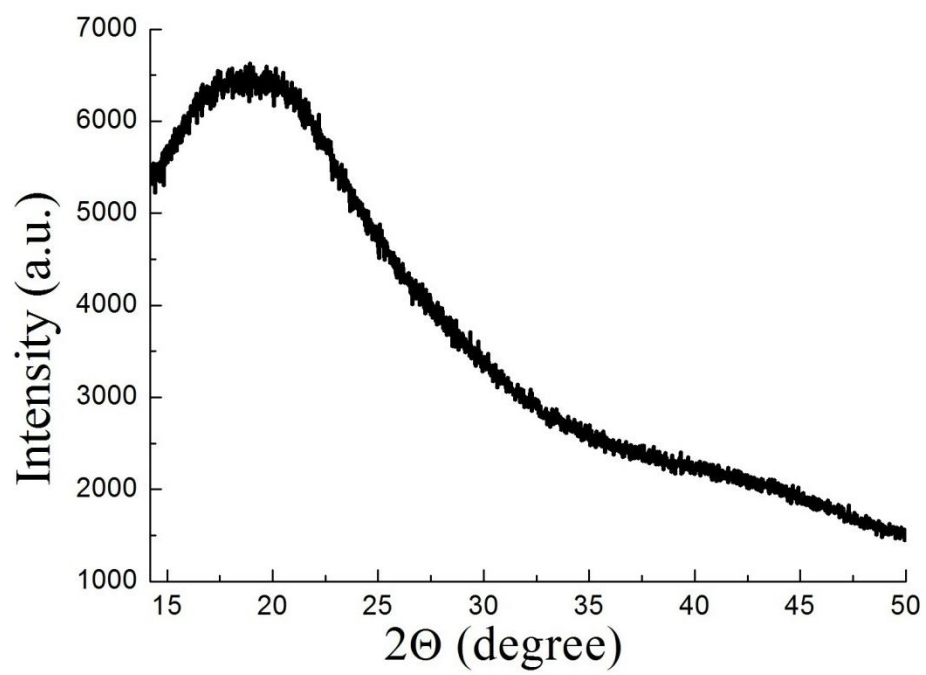


Figure S3. XRD pattern for the as-prepared C-dots.

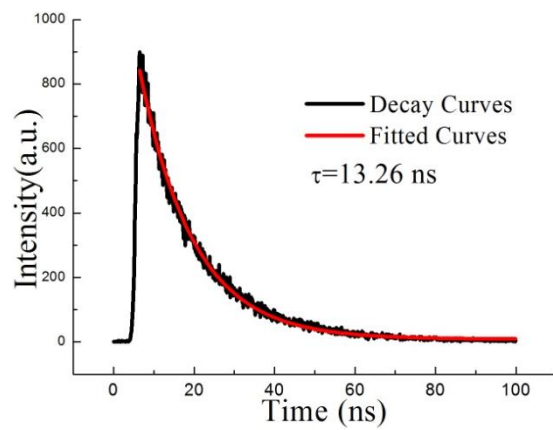


Figure S4. FL decays curves (330 nm laser excitation, and monitored through 430 nm band pass filter) of the C-dots. $I(t) = \alpha_1 \exp(-t/\tau) + b$

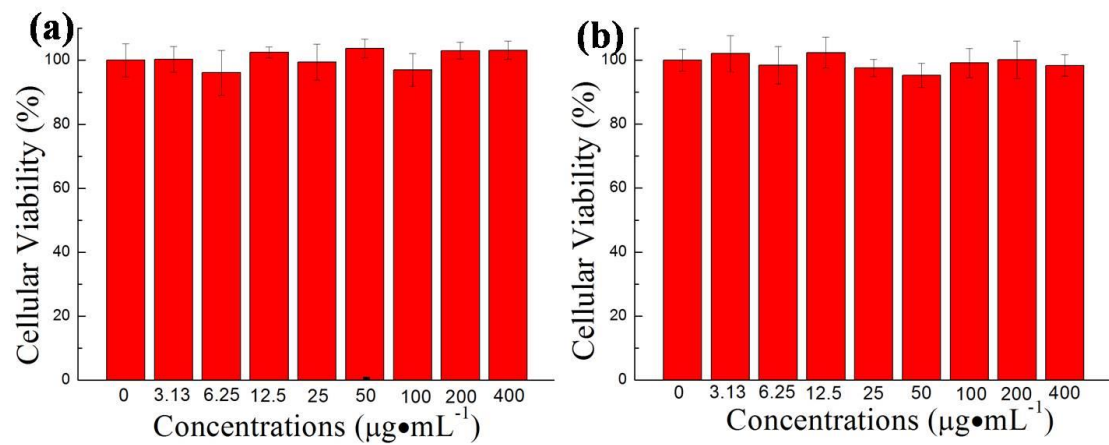


Figure S5. Viability of the SGC-7901 (a) or GES-1 cells (b) after 48 h incubation with the C-dots (mean \pm S.D, $n=4$).

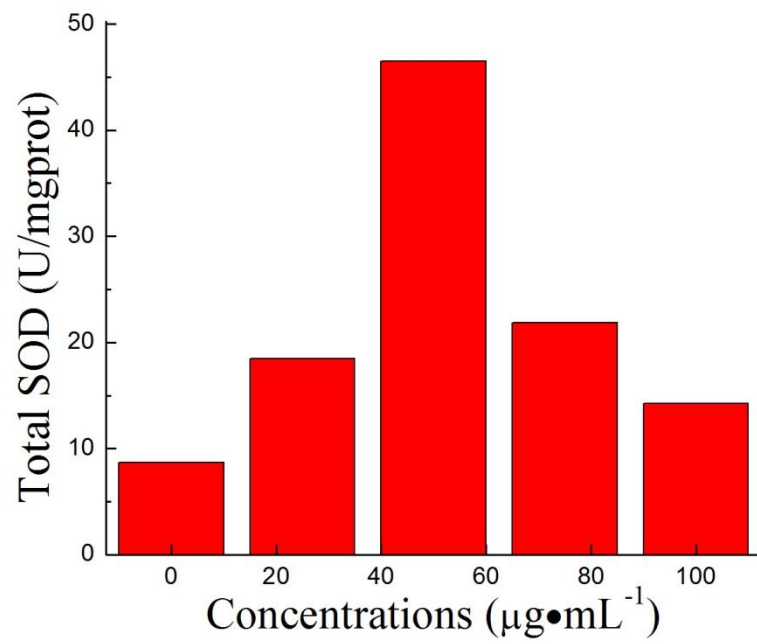


Figure S6. Total intracellular SOD incubated with different concentrations of C-dots.