

Supporting Information

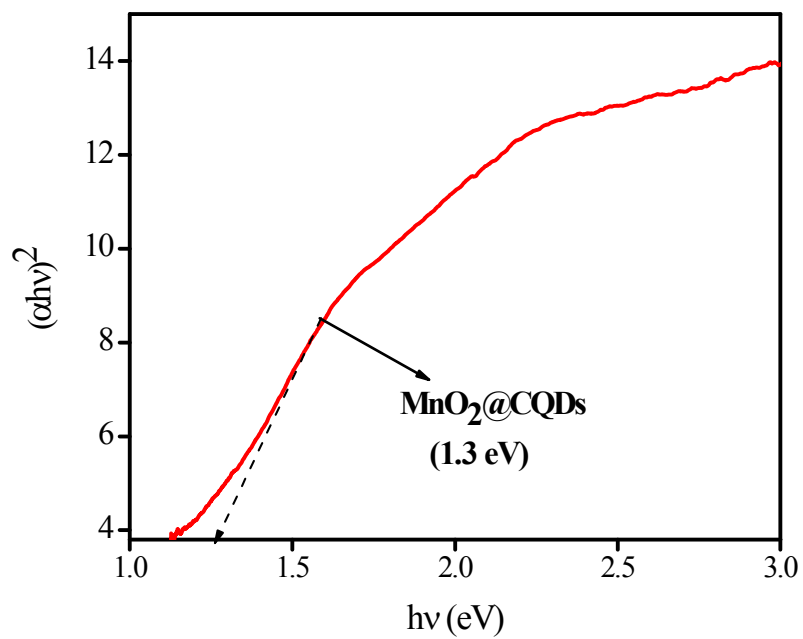


Fig. S1 Tauc plot for MnO₂+CQDs.

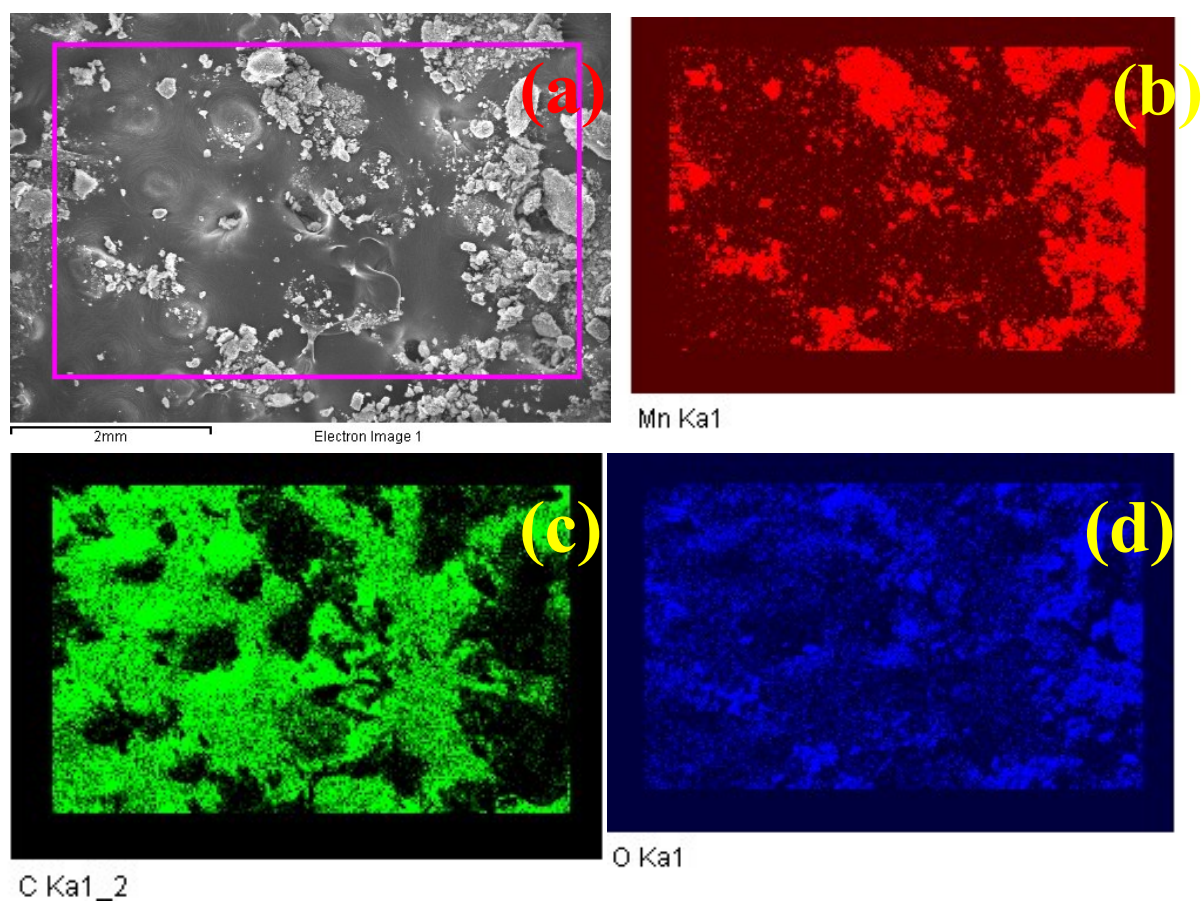


Fig. S2 Elemental mapping for $\text{MnO}_2@\text{CQDs}$.

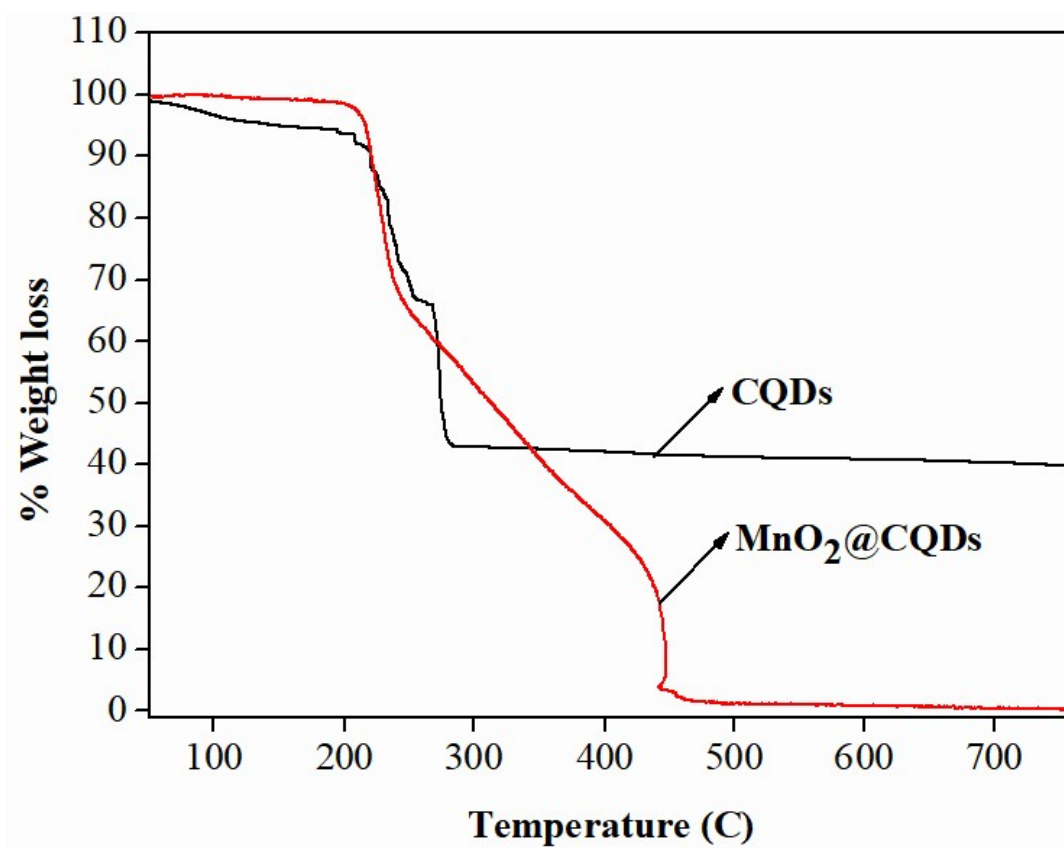


Fig. S3 TGA curves of CQDs and MnO₂@CQDs.

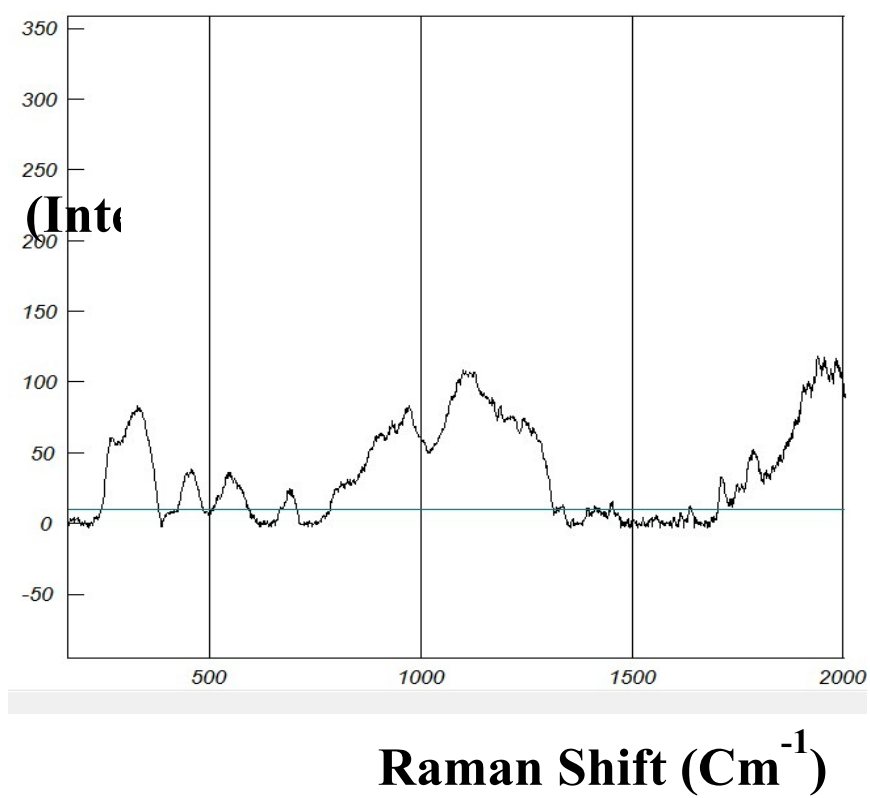


Fig. S4 Raman spectra for MnO₂@CQDs.

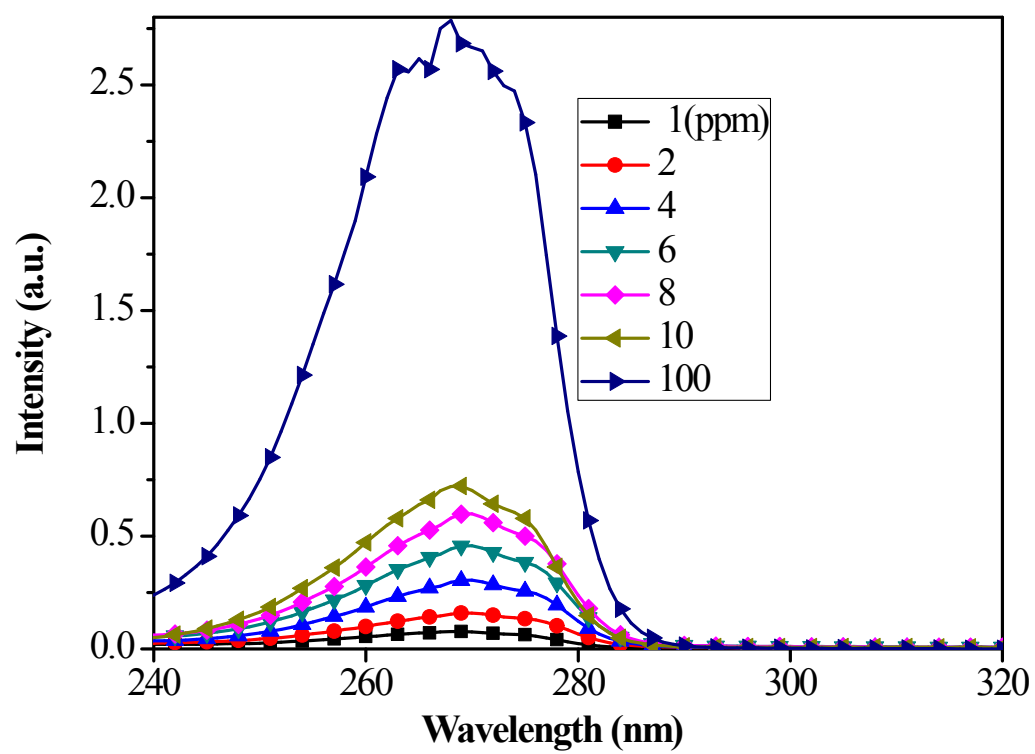


Fig. S5 UV-Visible spectra of phenol at different concentration.

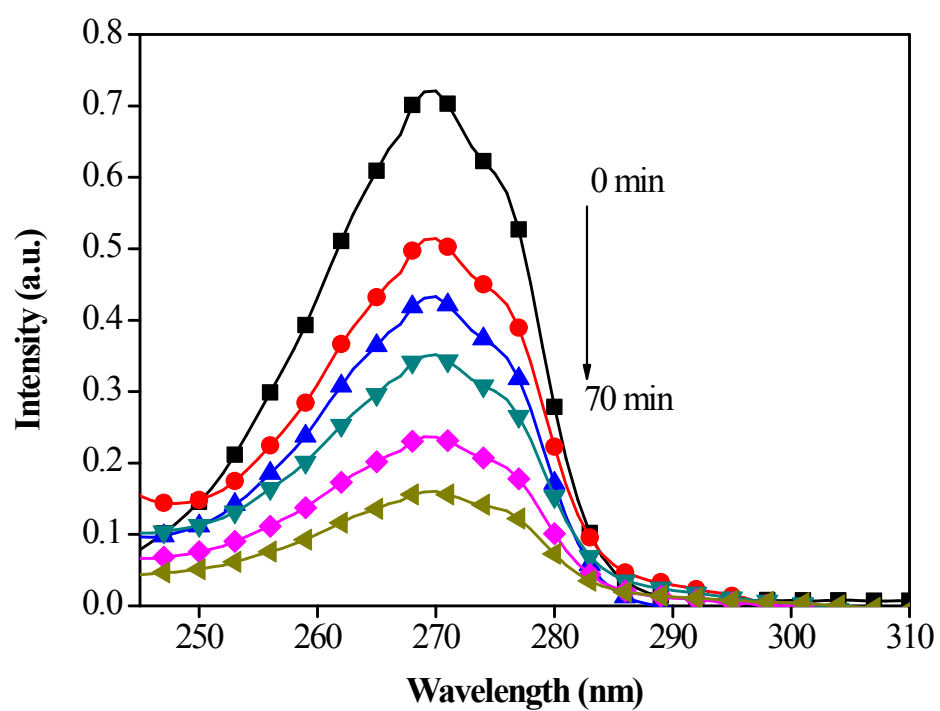


Fig. S6 UV-Visible spectra of phenol degradation at different time intervals by $\text{MnO}_2\text{@CQDs}$.

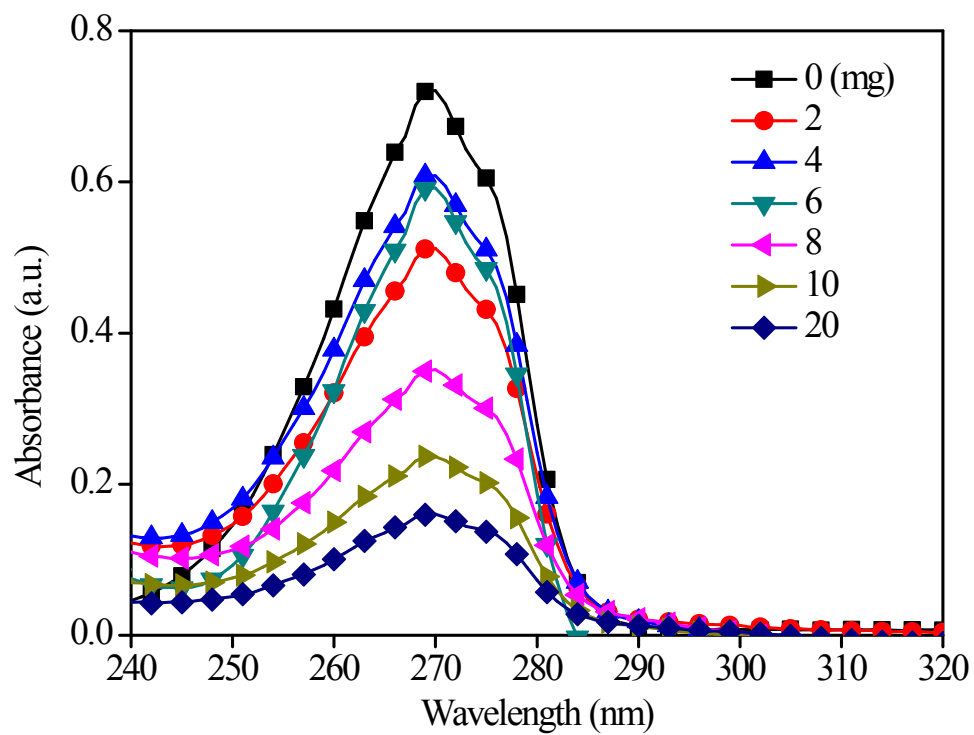


Fig. S7 UV-Visible spectra of phenol degradation by different catalyst amount.