

Supporting Information For:

Facile preparation of boron and nitrogen co-doped green emission carbon quantum dots for detection of permanganate and captopril

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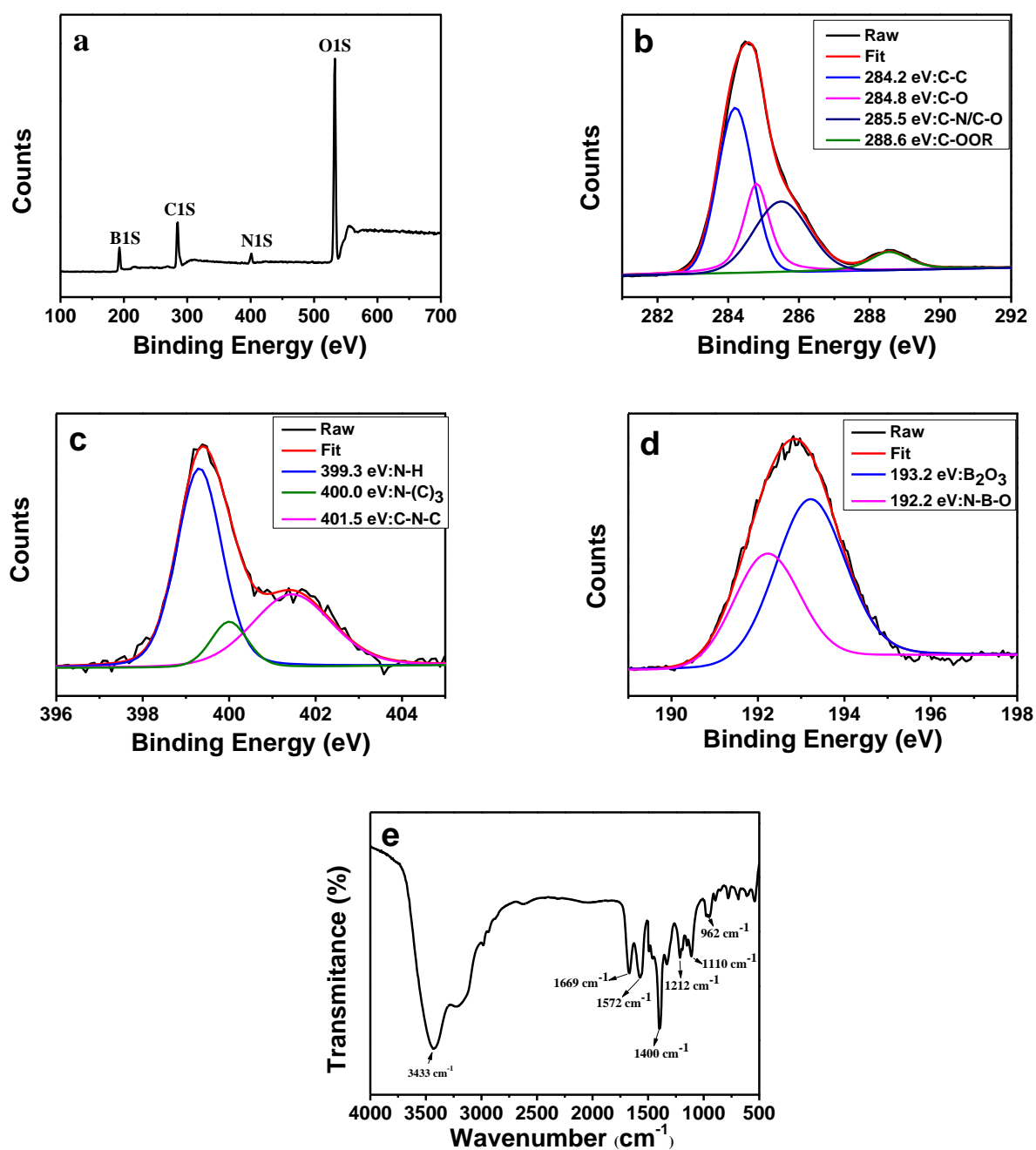


Figure S1. XPS spectrum of B,N-CQDs (a) and high-resolution XPS spectra of (b) C1s, (c) N1s and (d) B1s; (e) FTIR spectrum of B,N-CQDs.

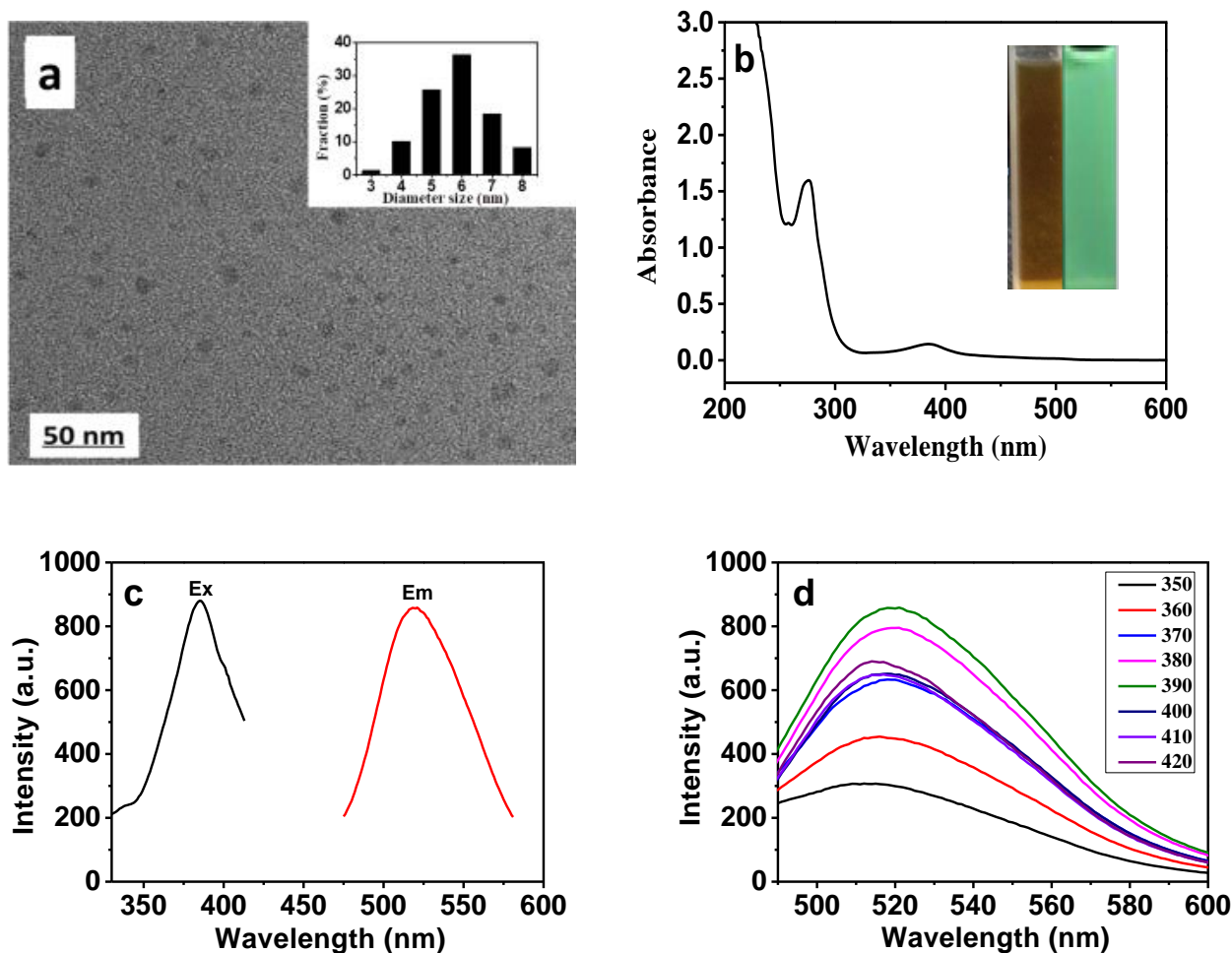


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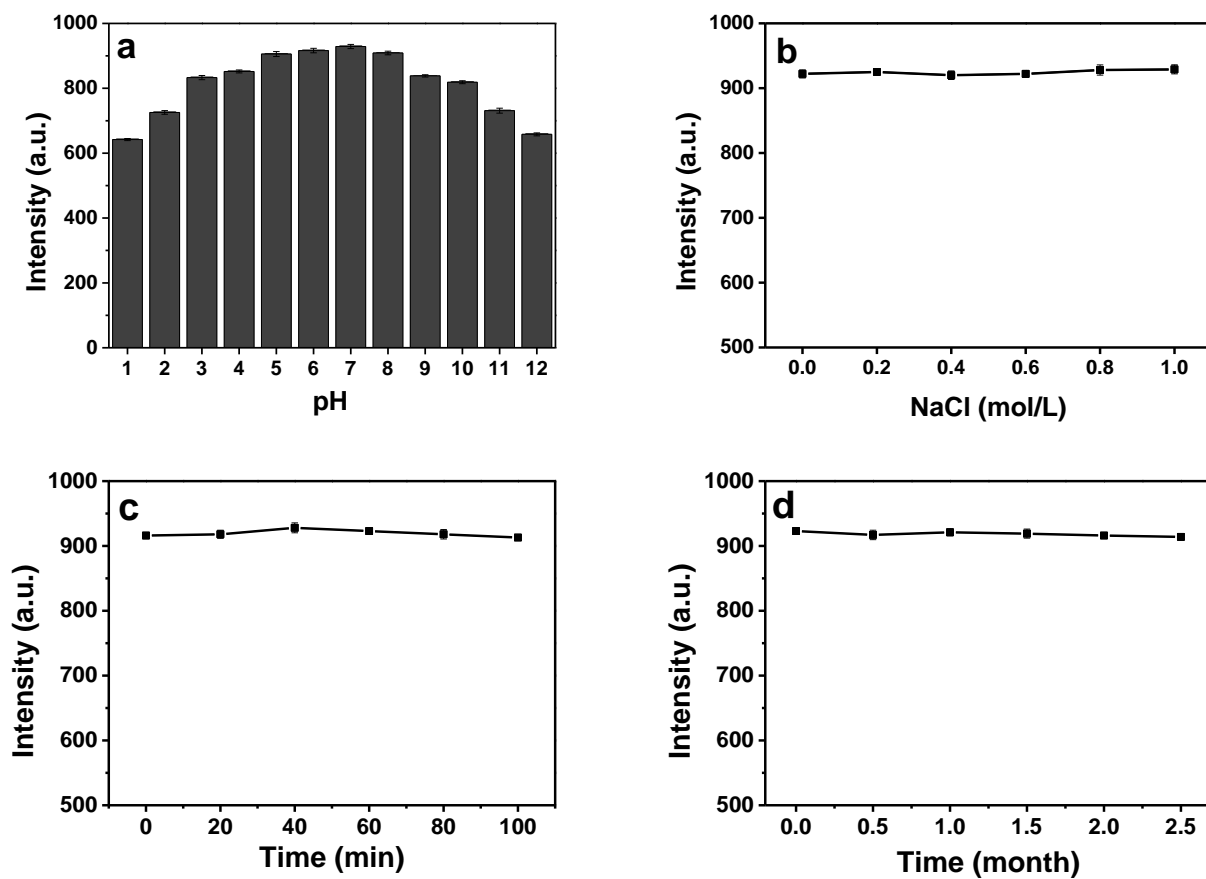


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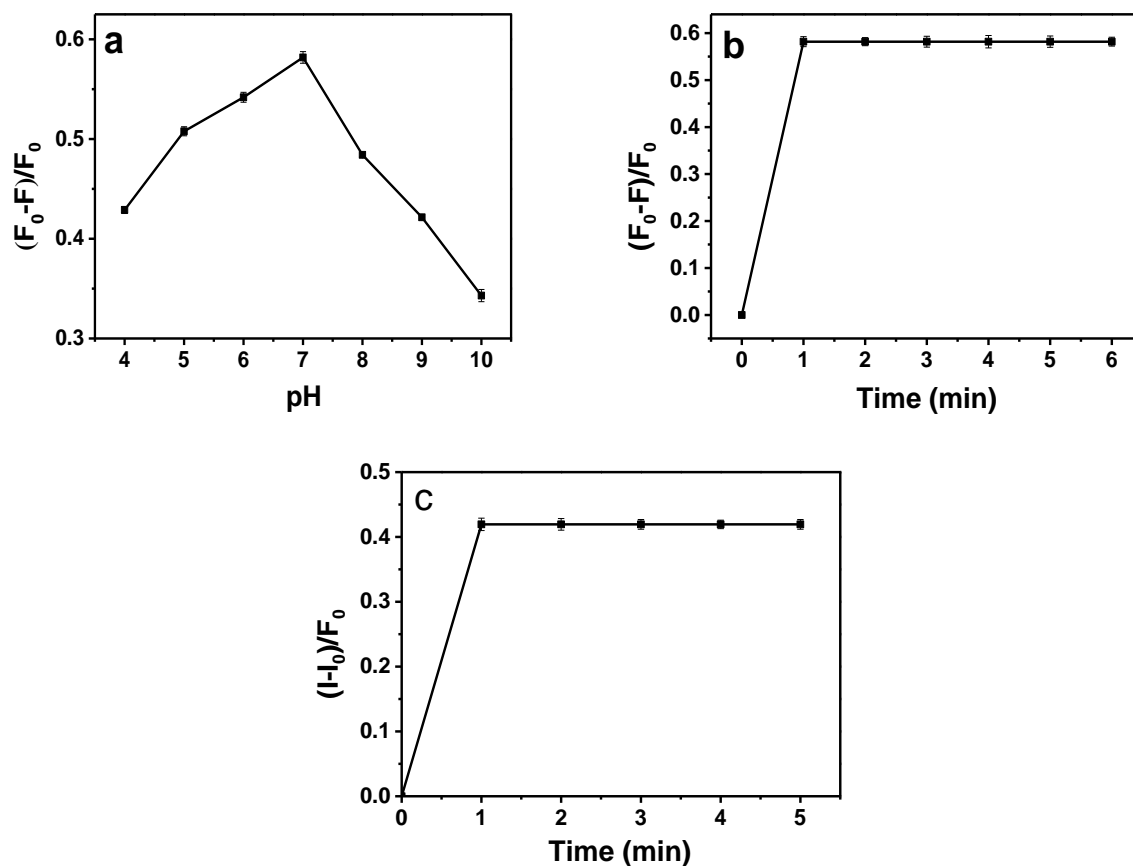


Figure S4. (a) Effect of pH on the quenching efficiency of B,N-CQDs (10 $\mu\text{g/mL}$) in the solution containing 10 mmol/L PBS and 60 $\mu\text{mol/mL}$ MnO_4^- ; (b) Effect of reaction time on the quenching efficiency of B,N-CQDs (10 $\mu\text{g/mL}$) in the solution containing 10 mmol/L PBS (pH7.0) and 60 $\mu\text{mol/mL}$ MnO_4^- ; (c) Effect of reaction time on recovery of B,N-CQDs (10 $\mu\text{g/mL}$) in the solution containing 10 mmol/L PBS (pH7.0), 60 $\mu\text{mol/mL}$ MnO_4^- and 60 $\mu\text{mol/mL}$ CP.

Table S1. Analytical results and recoveries of MnO_4^- in river water (n=5)

Added	Found	Recovery	RSD
($\mu\text{mol/L}$)	($\mu\text{mol/L}$)	(%)	(%)
0.5000	0.5200	104.0	2.7
5.000	4.870	97.40	1.9
50.00	48.93	97.86	2.4

Table S2. Analytical results and recoveries of CP in mouse plasma (n =5)

Original	Added	Found	Recovery	RSD
($\mu\text{mol/L}$)	($\mu\text{mol/L}$)	($\mu\text{mol/L}$)	(%)	(%)
2.780	1.000	3.790	101.0	3.1
2.780	3.000	5.680	96.67	2.8
2.780	5.000	7.860	101.6	2.3