Supporting Information

Preparation of carbon quantum dot fluorescent probe from waste fruit peels and its use for the detection of dopamine

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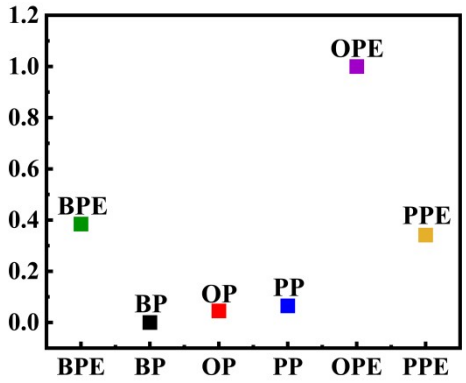

Figure S1 Corresponding normalized graph of Figure 2a. (The normalization factor is 1.79×10^{-4}.)

Table S1 Comparison of the advantages and disadvantages of this experiment with other existing DA detection techniques

DA detection technology	Detect defect	Detection advantage	Reference
Electrochemical analysis	The experimental conditions are demanding and susceptible to interference by environmental factors.	Highly sensitive and selective.	[1]
Chemiluminescence	To improve the luminescence performance of luminescent materials, chemical reagents need to be used, and the preparation and reaction principle of materials are complicated.	Low detection cost and wide linear range.	[2],[3]
High-performance liquid chromatography	The sample needs to be strictly purified, otherwise, it is easy to block the column, and the column is expensive.	Simple and fast for detecting the target.	[4],[5]
Colorimetric analysis	When the detected substance is nmol, it cannot achieve effective detection of the target substance.	Easy to operate, low cost, and the color change is visible to the naked eye.	[6]
Fluorescence spectrophotometry	It cannot be applied outside the laboratory.	High detection sensitivity, low cost, and simple instrument operation.	[7]

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