

Electronic Supplementary Material

Polydopamine-Functionalized Copper Peroxide/ZIF-8 Nanoparticles-Based Fluorescence-Linked Immunosorbent Assay for Sensitive Determination of Carcinoembryonic Antigen by Self-Supplied H₂O₂ Generation

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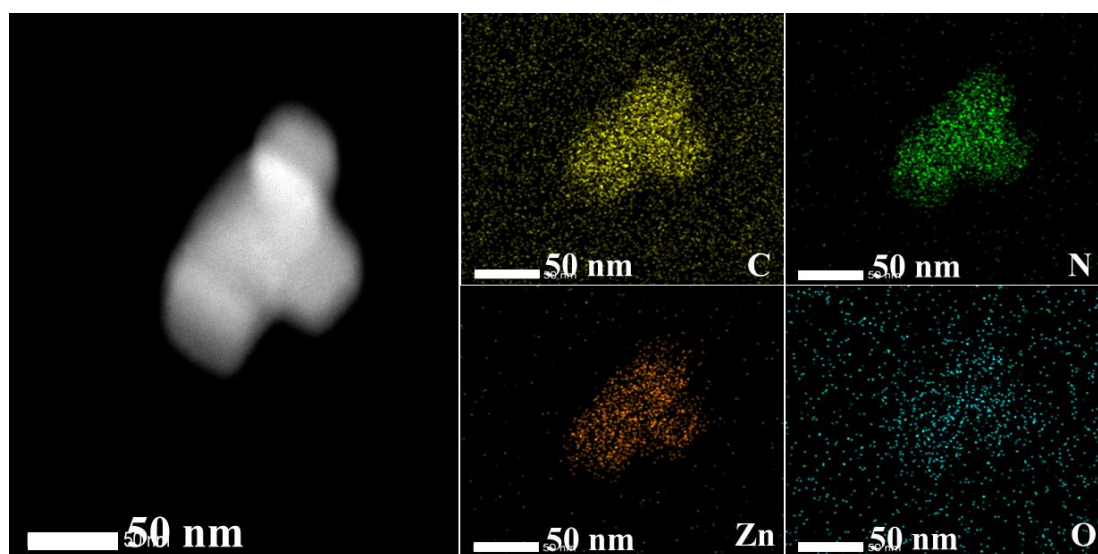


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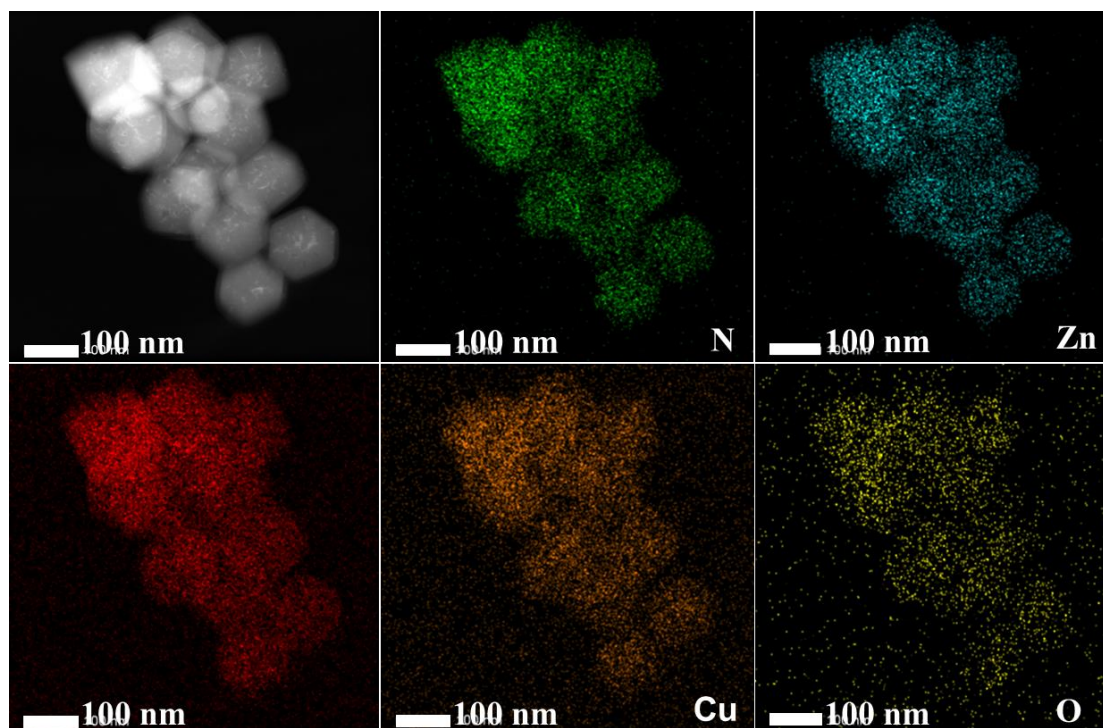


Figure S2. EDS mapping element analysis diagram of CP/ZIF-8

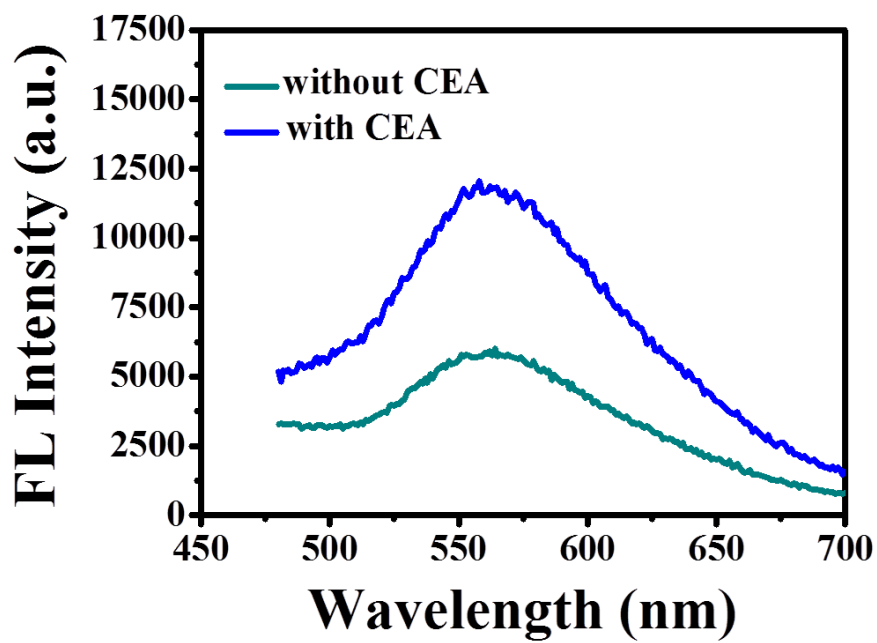


Figure S3. Fluorescence intensity of FLISA platform with and without CEA.

Table S1. Comparison of analytical performance for CEA determination by using different sensing methods.

Method	Recognition/Sensing elements	Linear range (ng mL ⁻¹)	Limit of detection (pg mL ⁻¹)	Reference
Electrochemical	Concanavalin/ANCMs@Fe ₃ O ₄ @Cusilicate	0.03-6	5.38	[1]
Electrochemiluminescence	Antibody/Co ₃ O ₄ NRs/luminol	0.005-500	2.9	[2]
Scanning electron microscope	Antibody/gold nanoparticle	0.1-80	30	[3]
pH-Based immunoassay	Antibody/glucose oxidase loaded gold hollow microsphere	0.1-100	62	[4]
Fluorescence	Antibody/alkaline phosphatase	0.25-30	80	[5]
Fluorescence	Aptamer/Texas Red/molybdenum disulfide	0.1-100	10	[6]
Fluorescence	Aptamer/glucose loaded mesoporous silica nanocontainers/CdTe/CdSe QDs	0.05-20	6.7	[7]
Fluorescence	CuO ₂ /ZIF-8/polydopamine / Aptamer	0.01-20	7.6	This work

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