Electronic Supplementary Material (ESI) for Analytical Methods.

Supporting Information

Synthesis of Novel Fluorescent Copper Nanomaterials and Their Application in Detection of Iodide Ions and Catalysis

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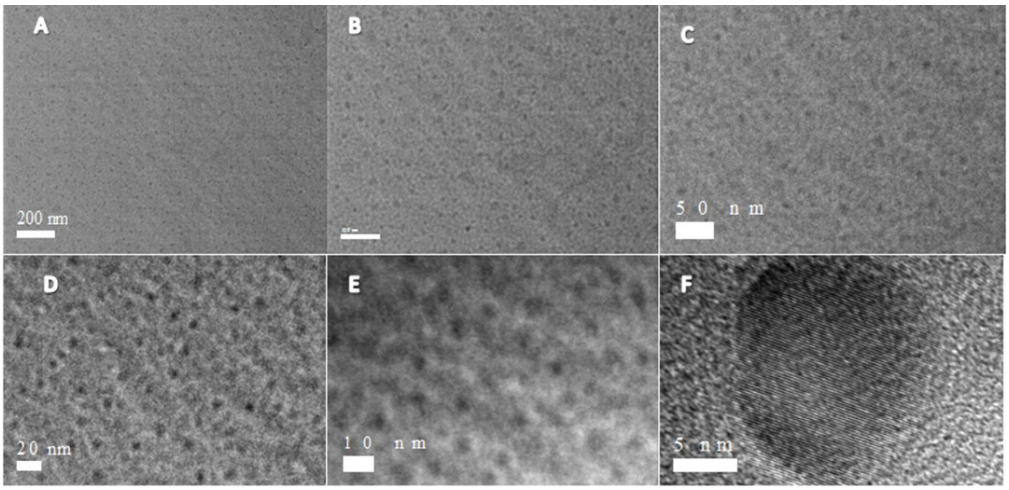

Figure S1. Proportion of different sizes TEM of Cu NPs

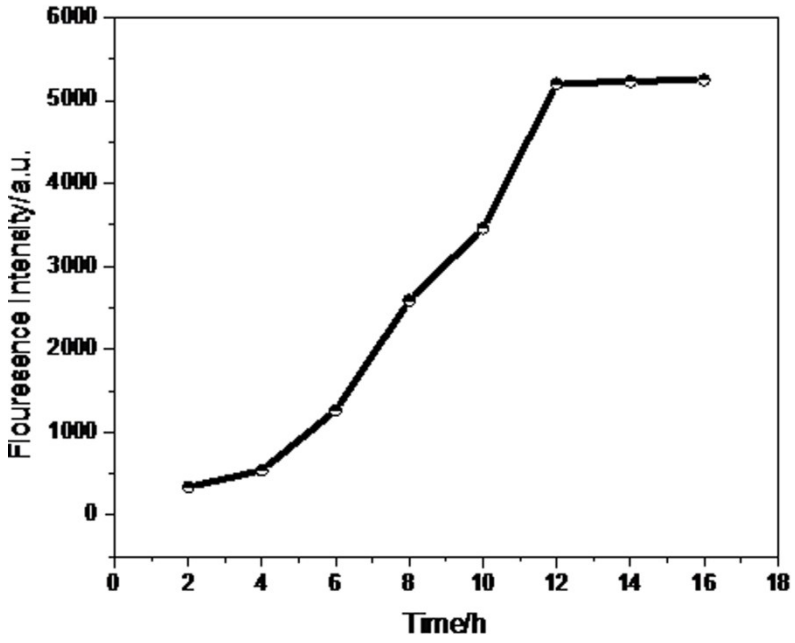

Figure S2. The fluorescence response of the resultant Cu NPs prepared at different reaction time

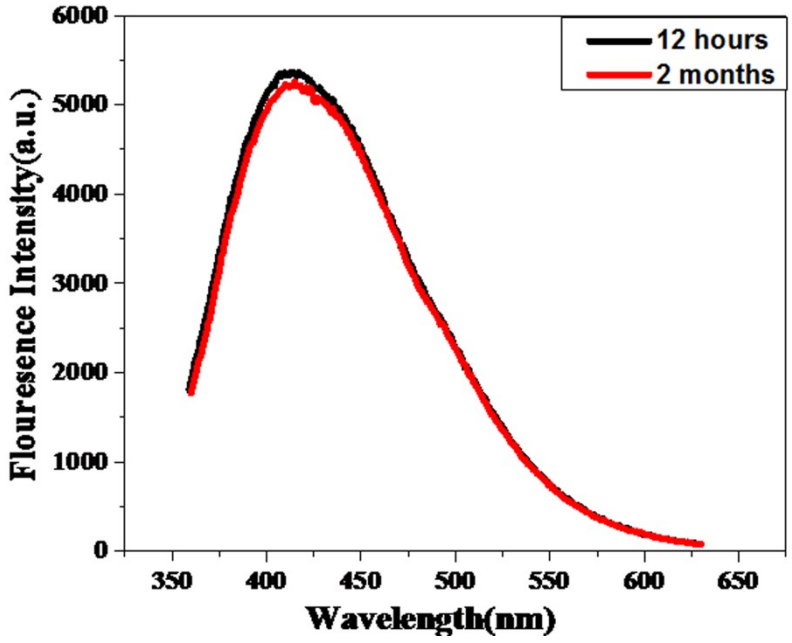

Figure S3. The fluorescence intensity of the CuNPs after two months storage at 4 °C.

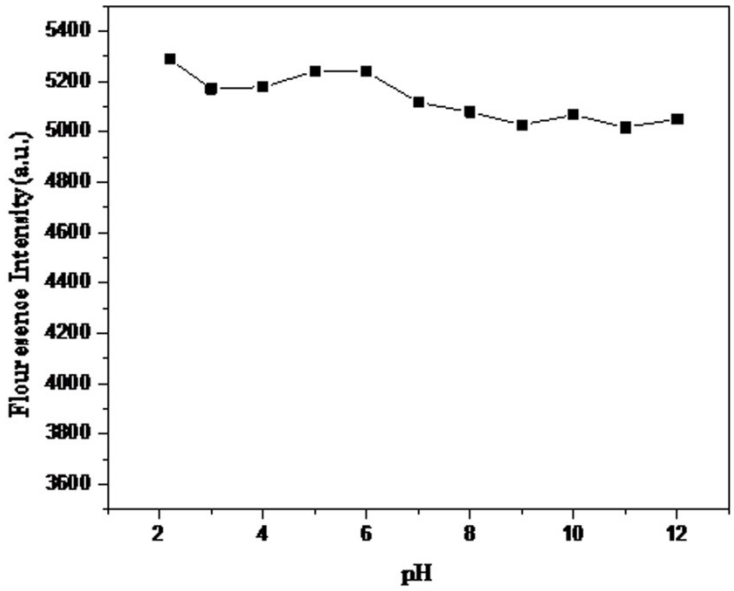

Figure S4. Fluorescence response of Cu NPs with different pH values.

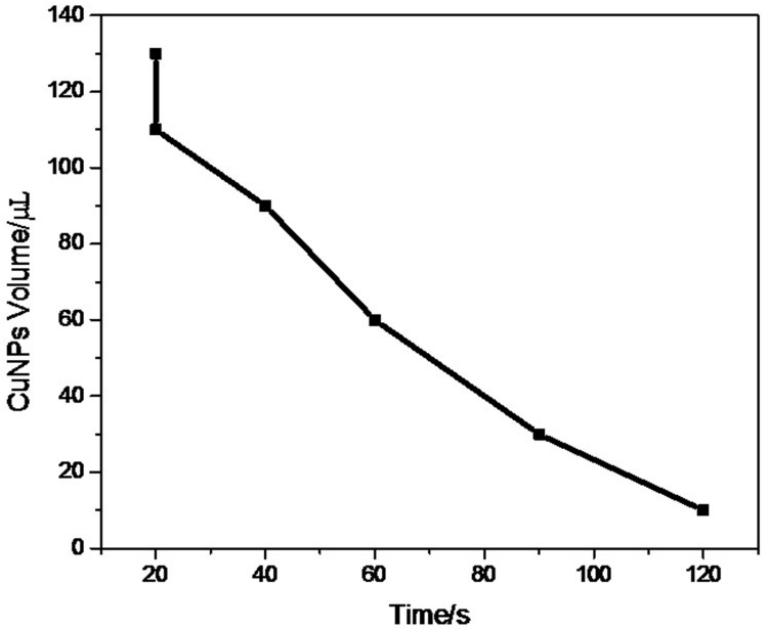

Figure S5. Response relationship between catalytic time and CuNPs addition.

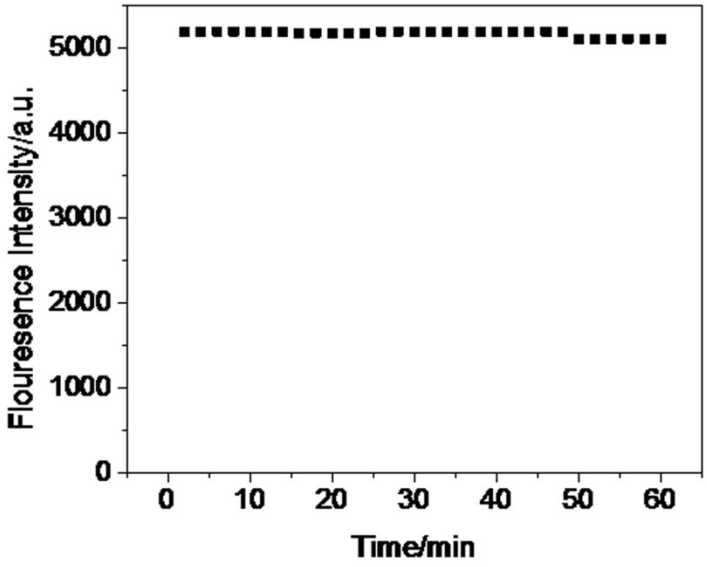

Figure S6. The fluorescence intensity of the CuNPs at the consecutive irradiation of a Xe lamp in different time.

Table S1. Comparison of the performance of different I^- sensors.

Materials	Linear range	LODs	Ref.
PEI-Cu NCs	0-800μM	100nM	[1]
Cu@Au Nanoparticles	0-10μM	1μM	[2]
Au NPs	0.01-4μM	10nM	[3]
Au NPs	80-800μM	0.24μM	[4]
AuNPs	0-4.5μM	10nM	[5]
Au NPs	0.5-120μM	15nM	[6]
Au NPs	145-120μM	0.5μM	[7]
Au@Ag NPs	20-135μM	5μM	[8]
Cu@Au NPs	1-80μM	5μM	[9]
Cu NPs	1-100μM	0.45μM	This study

References

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