

Sensitively electrochemical detection of copper ions based on the copper (II) ion assisted etching of Au@Ag nanoparticles

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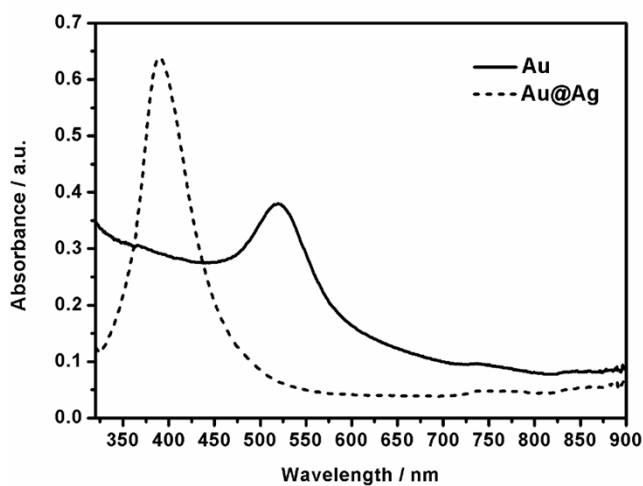


Fig. S1. The UV-Vis spectra of AuNPs and Au@AgNPs

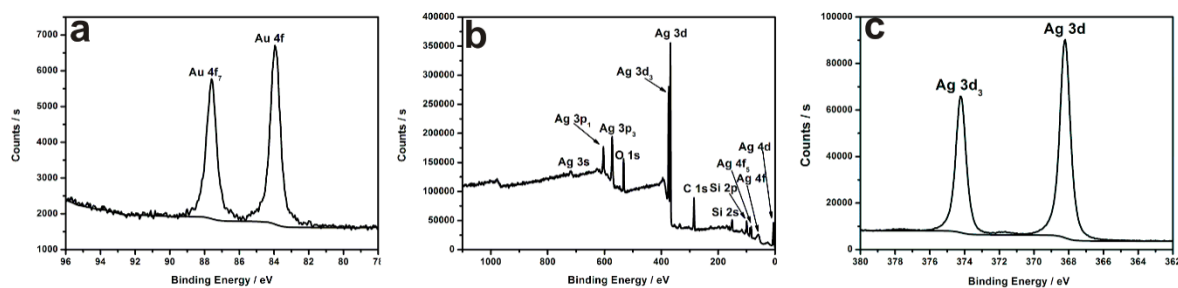


Fig. S2. The XPS spectra of prepared Au@AgNPs nanoparticles

Table S1. Comparison of this work with other published methods.

Ref.	Analytes	Detection limit of Cu ²⁺ (M)	Linear range of Cu ²⁺ (M)
1	Cu ²⁺	2.0×10 ⁻⁶	1.0×10 ⁻⁶ - 5.0×10 ⁻²
2	Cu ²⁺	7.8×10 ⁻⁶	1.0×10 ⁻⁵ - 5.0×10 ⁻¹
3	Cu ²⁺	3.5×10 ⁻⁹	7.9×10 ⁻⁹ - 3.2×10 ⁻²
4	Cu ²⁺	1.6×10 ⁻⁶	2.0×10 ⁻⁶ - 1.0×10 ⁻¹
5	Cu ²⁺	8.1×10 ⁻⁸	2.0×10 ⁻⁷ - 1.0×10 ⁻¹
6	Cu ²⁺ , Pb ²⁺	2.1×10 ⁻⁹	5.0 ×10 ⁻⁹ - 1.0×10 ⁻⁴
This work	Cu ²⁺	3.0×10 ⁻¹⁰	1 ×10 ⁻⁹ - 1.0×10 ⁻⁴

References

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