

Supplementary information

**Successive detection of glucose and bio-copper in human serum
based on multiplex biosensor of gold nanorods**

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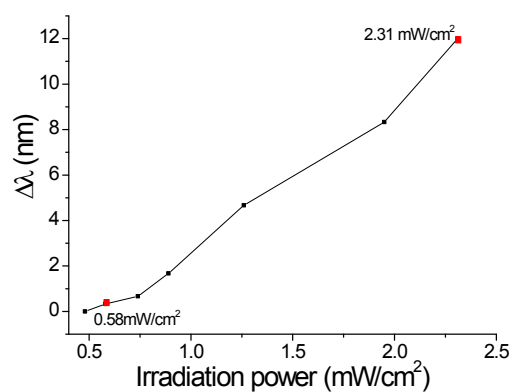


Figure S1. The relationship between degree of blue-shift of LPW and the intensity of UV light.

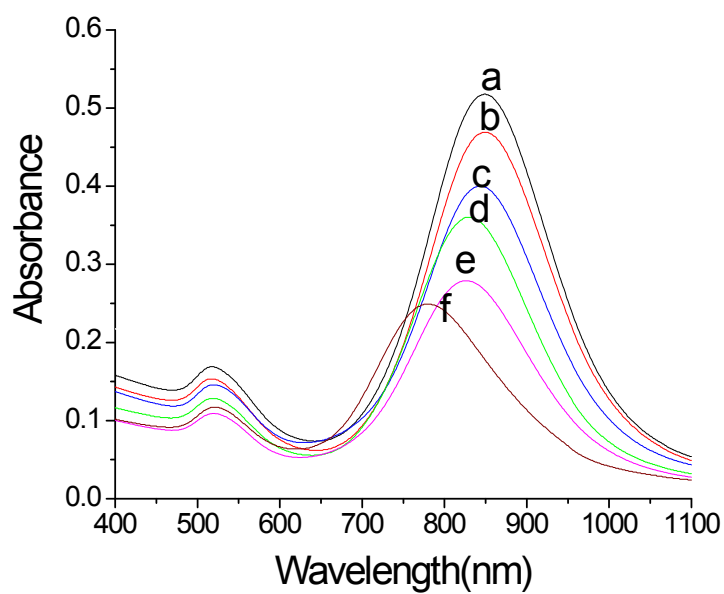


Figure S2. Absorption spectra obtained from the GNRs reacting with various concentration of Cu^{2+} in the presence of $\text{Na}_2\text{S}_2\text{O}_3$. (a: as-synthesized GNRs, b: 1×10^{-10} , c: 1×10^{-9} , d: 1×10^{-8} , e: 1×10^{-7} , f: 1×10^{-6} M Cu^{2+})

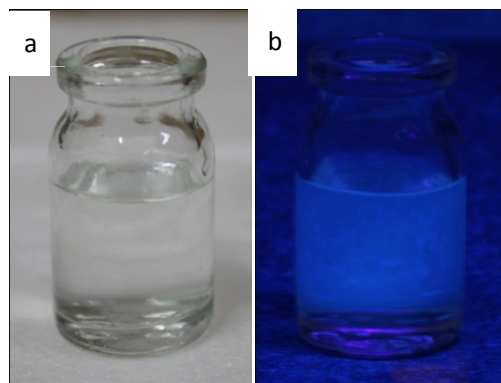


Figure S3. Photographs of the copper nanoclusters under visible light (a) under UV light (b).