

Supplementary Information for

## Assembling of Gold Nanorods on P(NIPAM-AAPBA) microgels: Large Shift in Plasmon Band and Colorimetric Glucose Sensing

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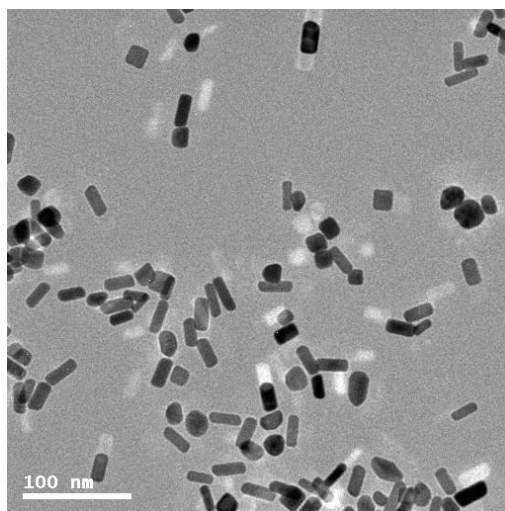


Fig. 1S TEM image of gold nanorods.

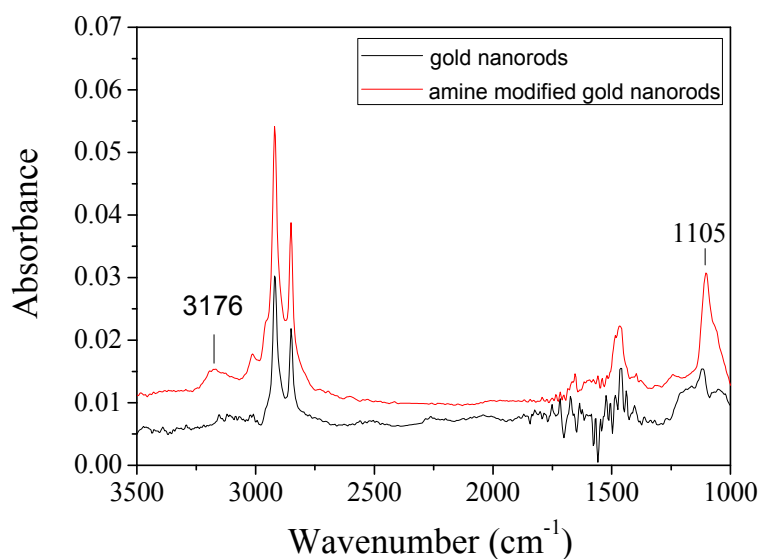


Fig. 2S FTIR spectra of the as-prepared and amine modified gold nanorods. The broad band centered at 3176cm<sup>-1</sup> is assigned to the N-H stretching in the NH<sub>3</sub><sup>+</sup> group. The peak at 1105 cm<sup>-1</sup> is assigned to the C-N stretching.[1]

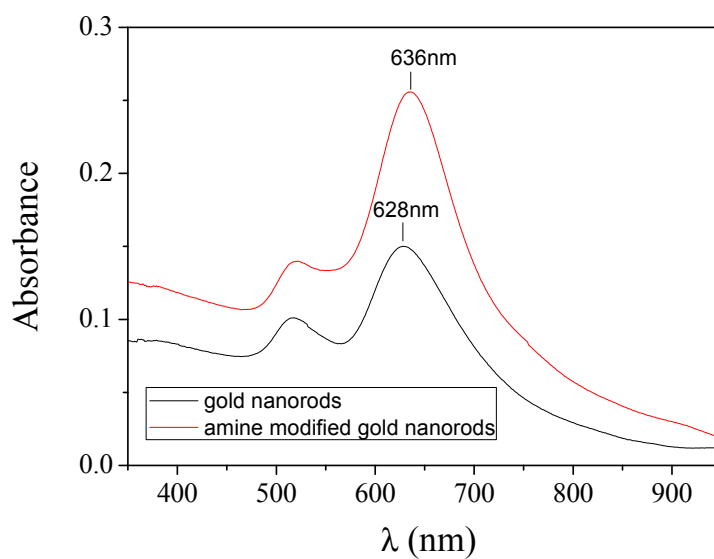


Fig. 3S UV-vis spectra of the as-prepared and amine modified gold nanorods.

## References:

1. Silverstein, R.M., F.X. Webster and D.J. Kiemle, *Spectrometric Identification of Organic Compounds*, 7th Edition. 2005, New York: John Wiley & Sons, Inc.