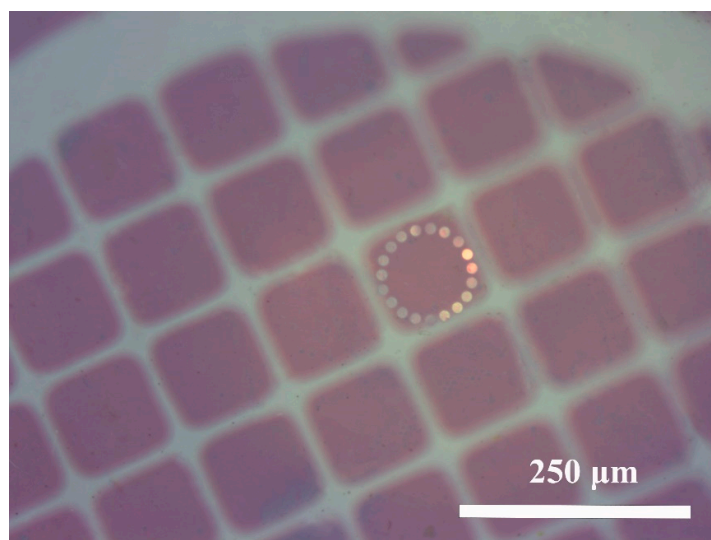


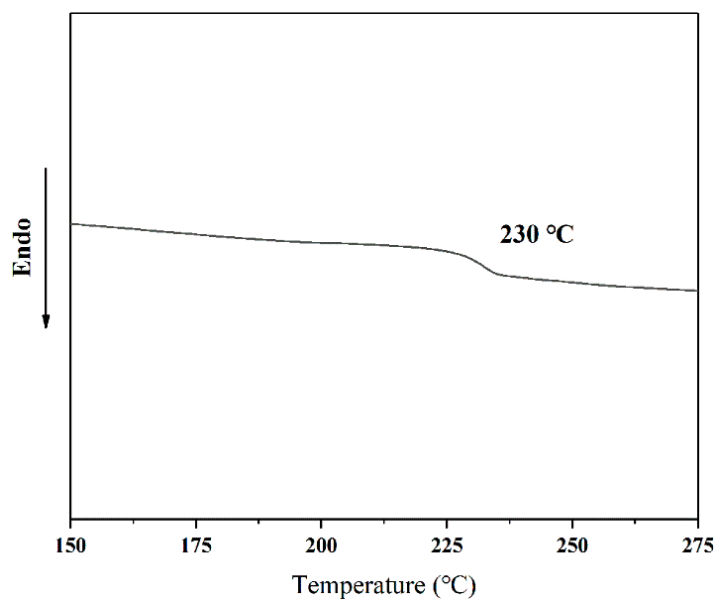
# An Immunosensor Based on Au-Ag Bimetallic NPs Patterned on a Thermal Resistant Flexible Polymer Substrate for In-vitro Protein Detection

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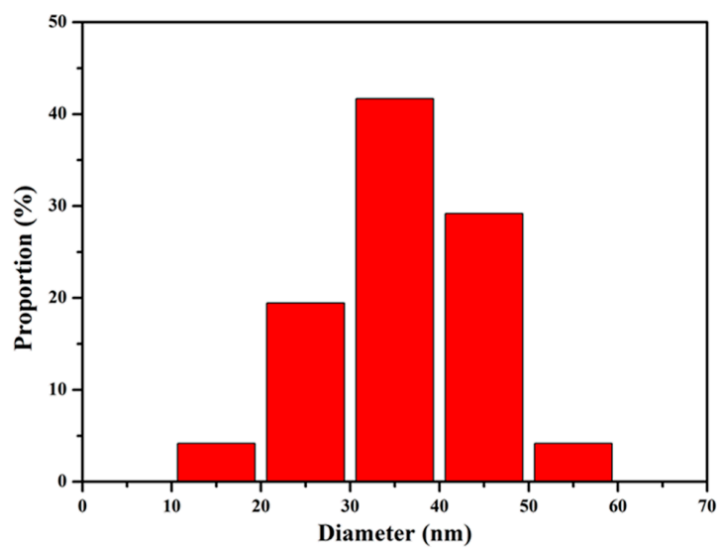
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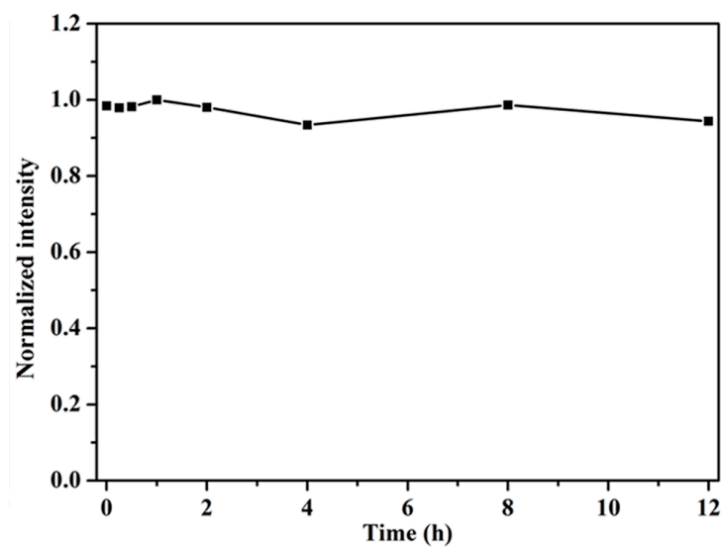
**Figure S1.** The microscope image of PEN/Au-Ag NPs sample. Aureole circled area was the test region.



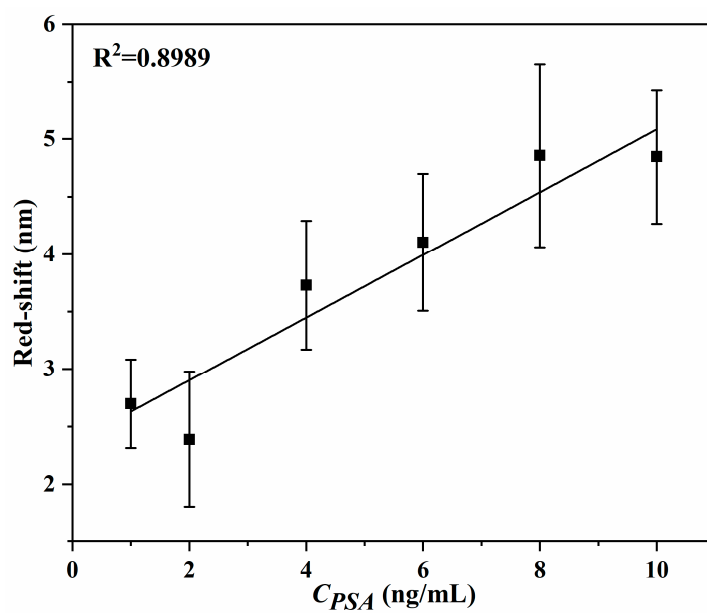
**Figure S2.** DSC spectrum of employed PEN.



**Figure S3.** The histograms of the particle size distribution according to the SEM result of PEN/Au-Ag NPs annealing at 290 °C.



**Figure S4.** The normalized intensity of PEN/Au-Ag NPs (annealing at 290 °C) suffered from absolute ethanol for different times.



**Figure S5.** The dose dependent responses to PSA antigen of different concentrations (1 to 10 ng/mL) and the corresponding linear fitting curve.