

Supplementary Information for:

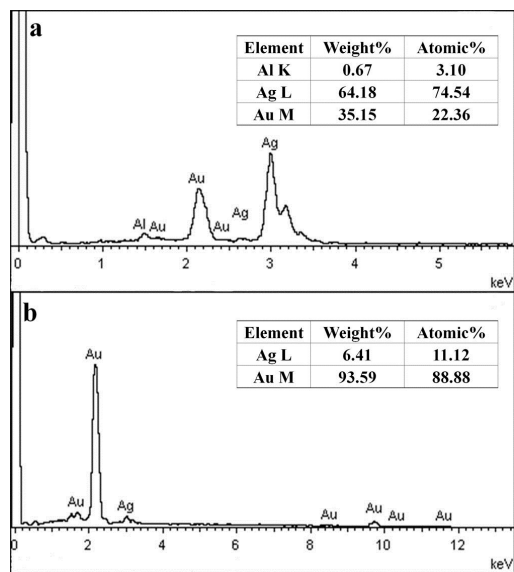
**A sensitive electrochemical immunosensor for the detection of human chorionic gonadotropin  
based on hierarchical nanoporous AuAg alloy**

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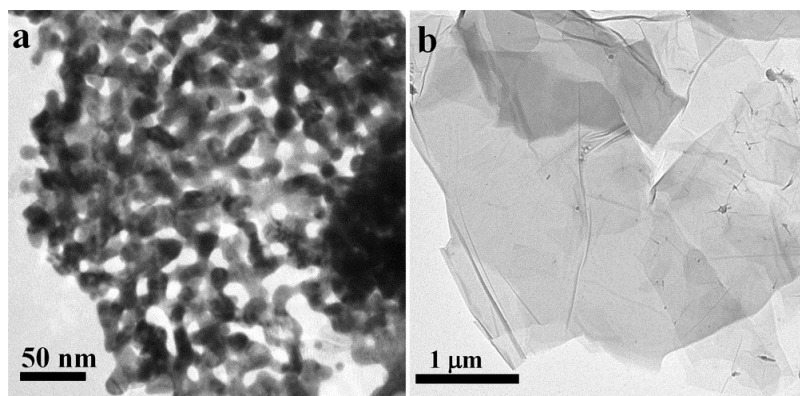
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**Fig. S1.** EDS data of (a) the sample obtained by dealloying AuAgAl alloy in 1 M NaOH solution for 24 h and (b) the sample obtained by further annealing at 200 °C for 30 min and etched in concentrated HNO<sub>3</sub> for 1 h.



**Fig. S2.** TEM images of the (a) nanoporous Au and (b) GS.

**Table S1** The hCG detection in serum by the constructed immunosensor.

Added hCG (ng/mL)	Measured (ng/mL)	RSD (%, n=5)	Recovery (%, n=5)
1	1.02	3.23	102
5	5.15	2.71	103
10	10.22	3.16	102.2
20	19.23	1.82	96.15