Electronic Supplementary Material (ESI) for Analytical Methods.

Pt catalyzed formation of Ni@Pt/reduced graphene oxide nanocomposite: preparation and electrochemical sensing application for glucose detection

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Supporting Information

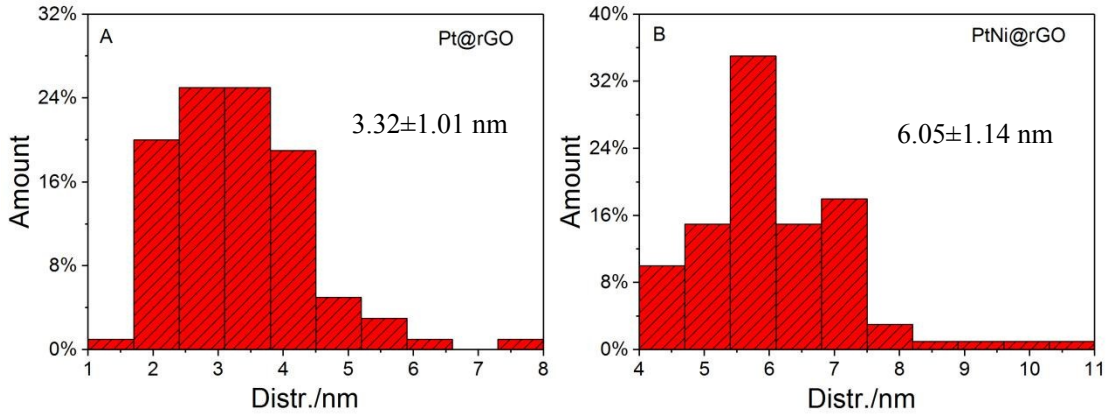

Fig. S1. The diameter analysis of Pt@rGO (A) and PtNi@rGO (B).

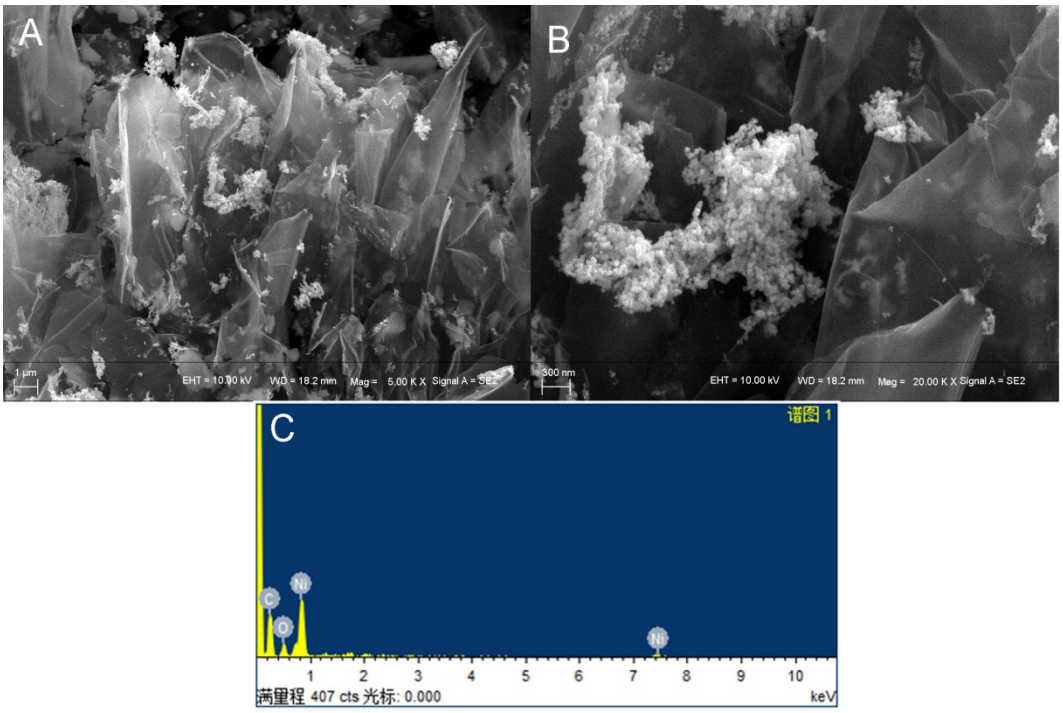

Fig. S2 SEM images (A, B) and EDS analyisis (C) of Ni/rGO without Pt-catalyzed reduction.

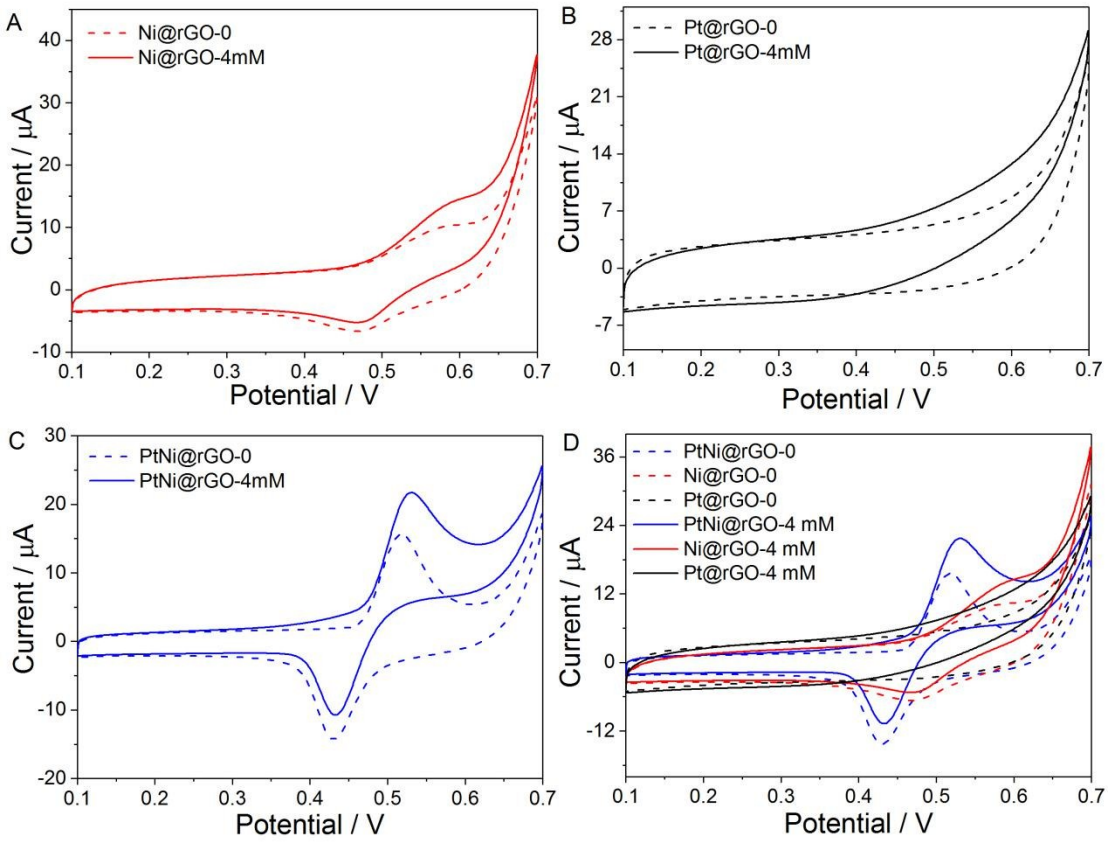

Fig. S3 Comparison of three electrodes in absence (dash line) and presence (solid line) of 4.0 mM glucose in 0.1 M NaOH by CV. Scan rate: 50 mV s^{-1}.

Table S1 Determination of glucose in human serum by our developed glucose sensor.

Sample	Determined by a blood glucose meter (mM)	Determined by our sensor (mM)	RSD (%)
1	4.23	4.16	28.14
2	8.23	8.40	23.90