

Supporting material:

Synthesis of gold nanoclusters/glucose oxidase/graphene oxide multifunctional catalyst with surprisingly enhanced activity and stability and its application for glucose detection

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Particle size distribution of GNCs was listed in **Fig.S1**. Fig.S1 clearly shows that the particle size mainly lies at the diameters of 3 and 4 nm, their total ratio is up to 88%, indicating a narrow particle size distribution of GNCs.

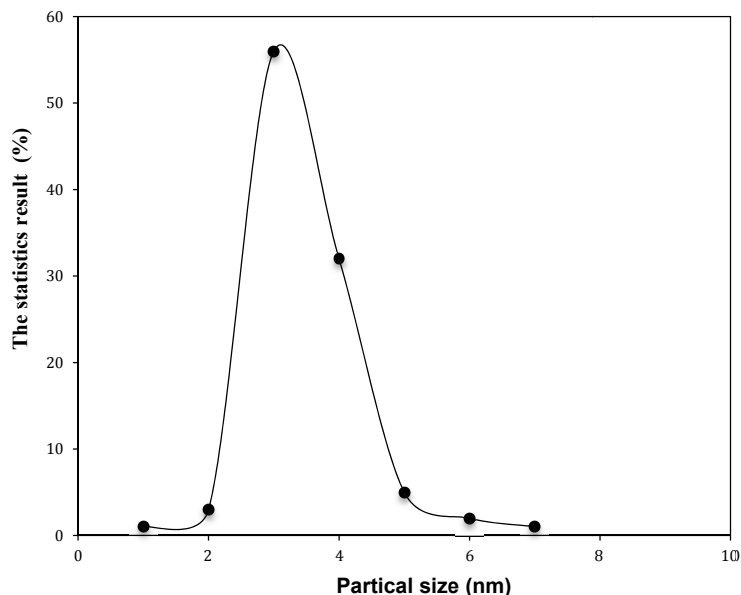


Fig.S1 Particle size distribution of GNCs

Fig.S2 present typically IR spectrum of the GNC/GOD/GO. The presence of band at 3278 and 1544 cm^{-1} can be assigned as the hydrogen-bonded N-H stretching, C=O stretching and N-H bending bands, respectively. The above two bands suggest the presence of an intermolecularly hydrogen-bonded structure in the gel state. Another peak at 1680 cm^{-1} appeared; this is characteristic of the C=O stretching band of carboxylic acid.

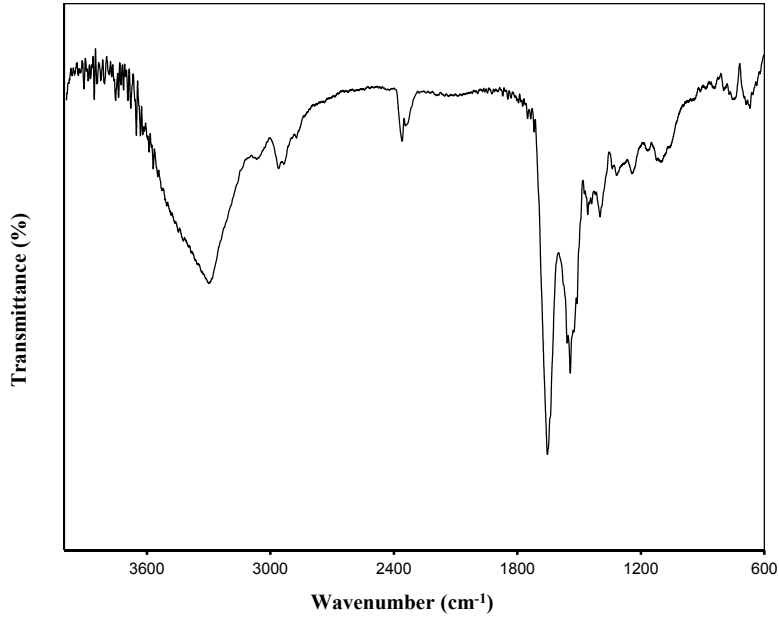


Fig.S2 The IR spectrum of GNC/GOD/GO