

Electronics Supplementary informations

Amino acid Functionalized ZrO₂ Nanoparticles decorated Reduced Graphene Oxide based Immunosensor

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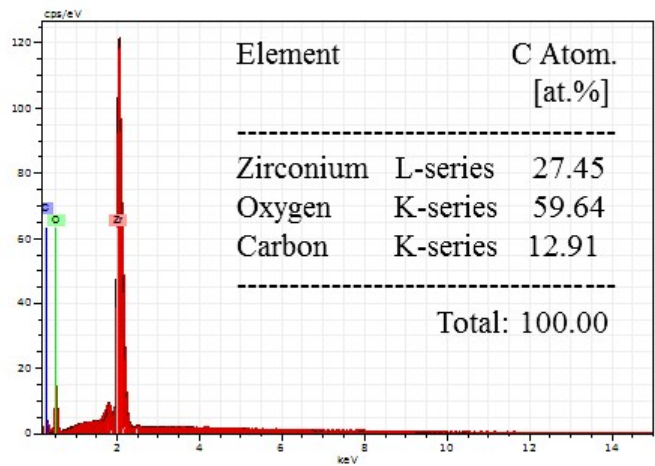
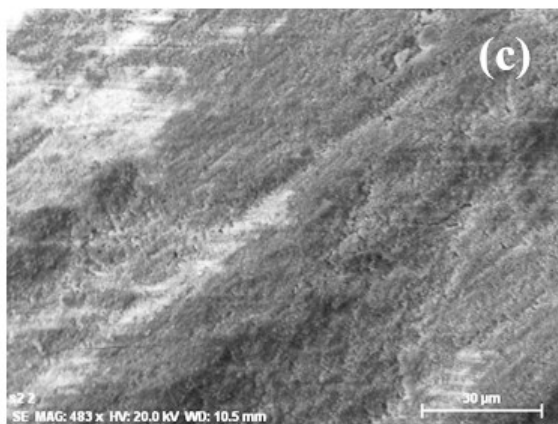
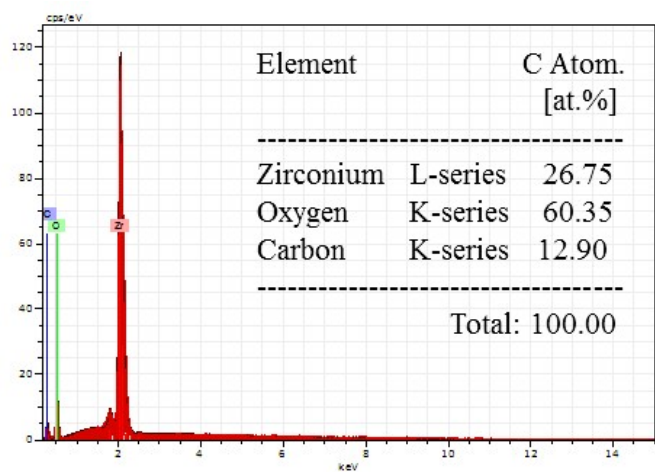
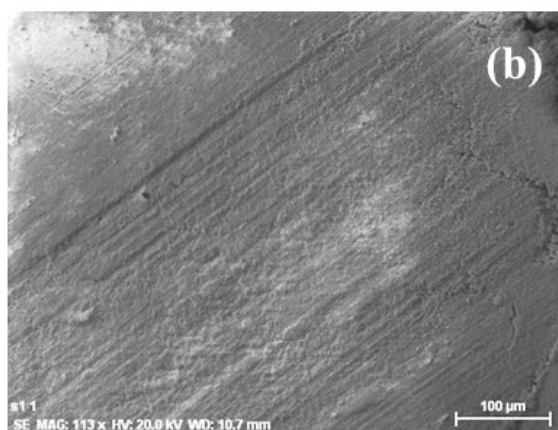
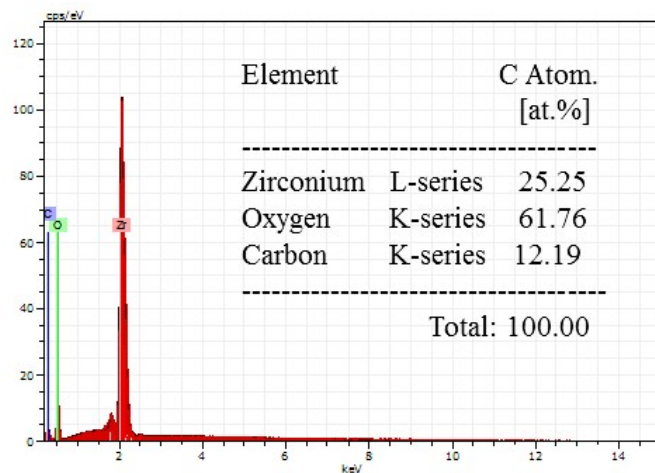
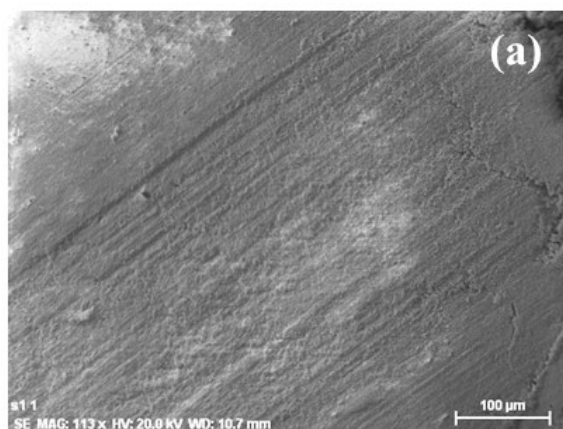


Figure S1 EDS of ZrO₂-RGO nanocomposite at different spots (a), (b), and (c).

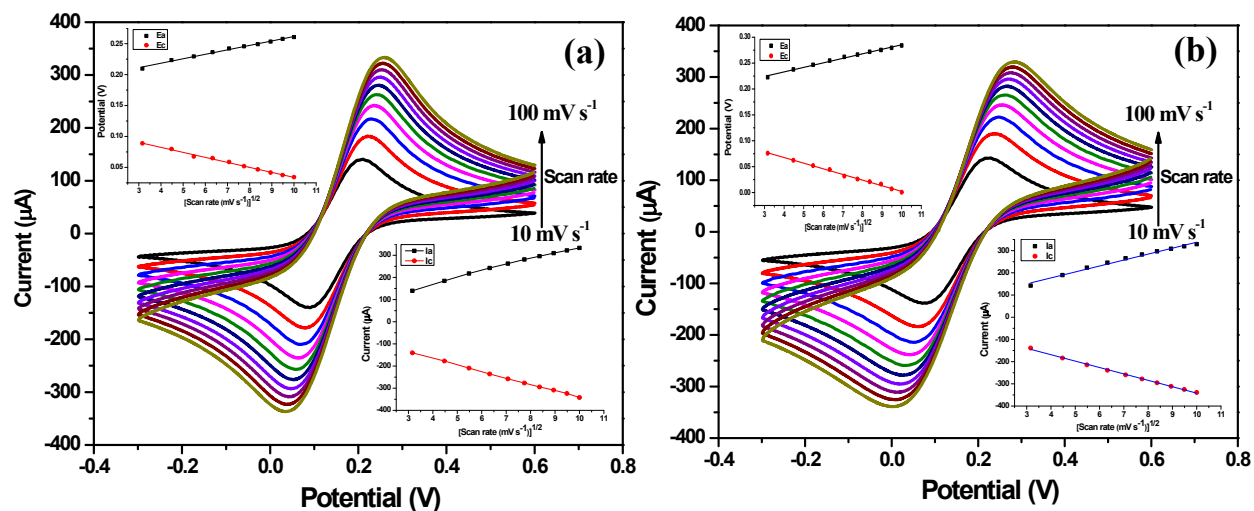


Figure S2 CV of (a) Meth/ZrO₂-RGO/ITO and (b) BSA/anti-OTA/Meth/ZrO₂-RGO/ITO immunoelectrode as a function of scan rate of 10-100 mV/s. Upper and lower inset showed the graph of current and potential with $\sqrt{\text{scanrate}}$ respectively.

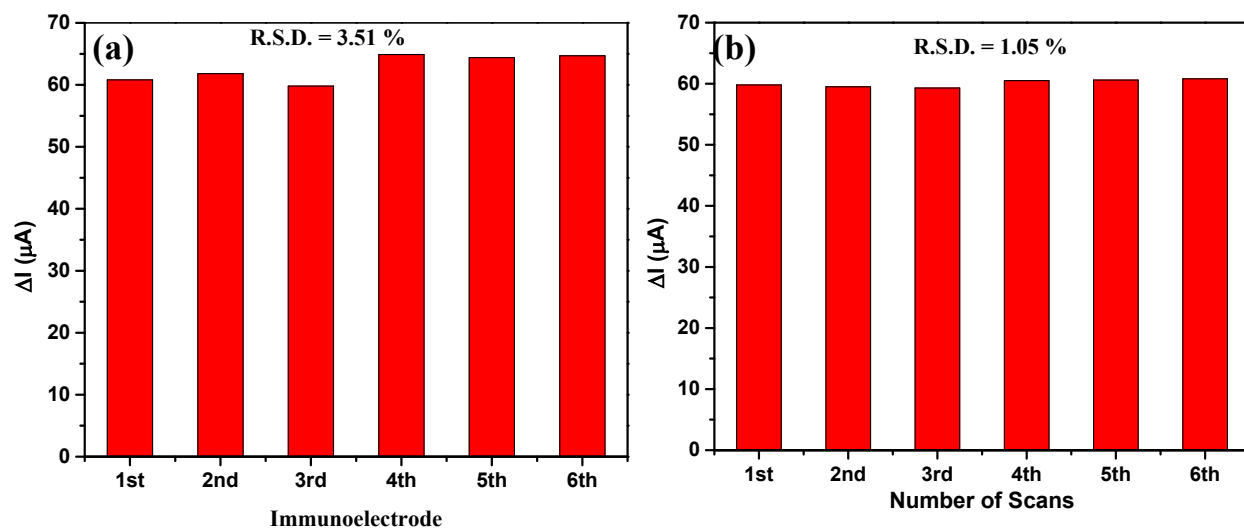


Figure S3 (a) reproducibility and (b) repeatability of BSA/anti-OTA/Meth/ZrO₂-RGO/ITO immunoelectrode.