**Abstract**

 In this study a novel electrochemical sensor based Zinc oxide nanoparticles ensembled on polymer functionalized reduced graphene oxide nanocomposites have been used for the selective detection of p-Aminophenol [1]. The nanocomposites were synthesized using chemical reduction method. The synthesized nanocomposites were characterized using FT-IR, XRD, SEM and EDAX. The electrochemical properties of the nanocomposites were investigated using cyclic voltammetry [2]. Under optimized conditions, the fabricated electrode showed a linear range from 10µM to 500 µM with the low detection limit of 0.5 µM. Hence, the polymer functionalized reduced graphene oxide/Zinc oxide nanocomposites modified GCE showed high electrocatalytic activity towards the oxidation of p-Aminophenol. The prepared sensor can be used for real time detection in waste water [3].