Electronic Supplementary Material (ESI) for Analytical Methods.

CeO_2-MWCNT nanocomposite based electrochemical sensor for acetaldehyde

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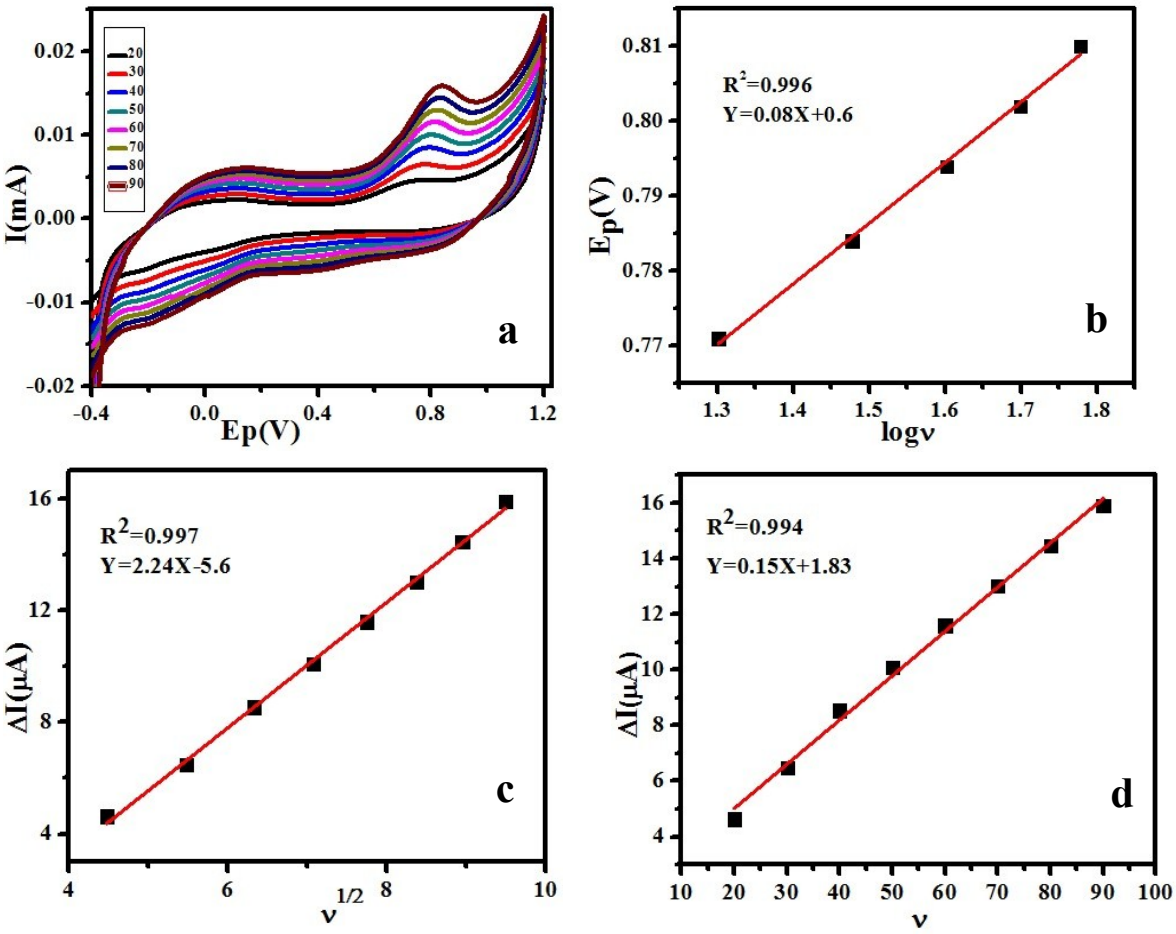

Fig.S1: (**a**) Cyclic voltammograms of oxidation of acetaldehyde (10^{-6}M) at various scan rates (20 to 90mV/s) at CeO_2-MWCNT/GC electrode (**b**) Plot of Ep Vs log ν (**c**) plot of Ip Vs $\nu^{0.5}$ (**d**) Plot of Ip Vs ν

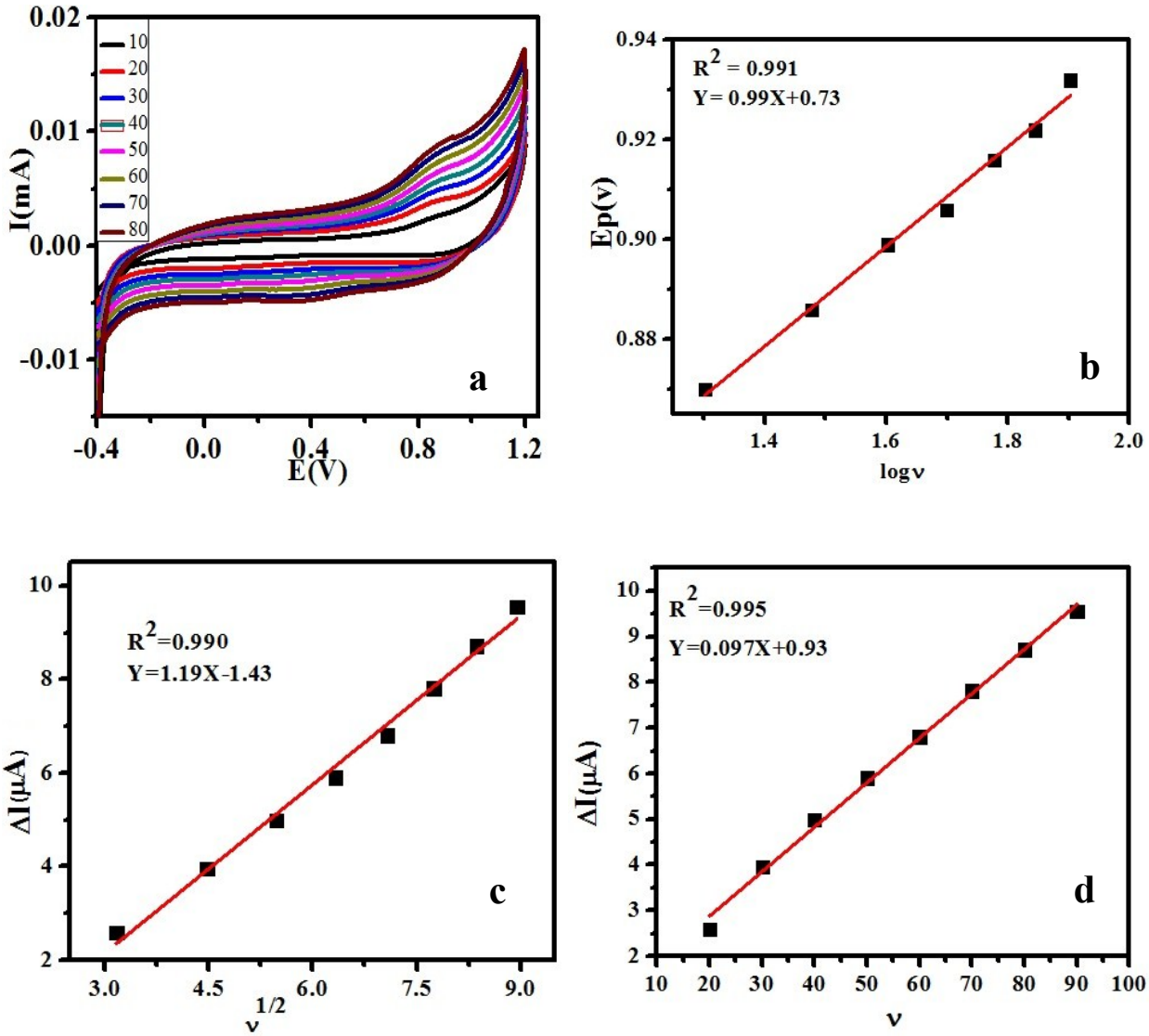

Fig.S2:(a) Cyclic voltammograms of oxidation of acetaldehyde (10^{-6}M) at various scan rates (20 to 90mV/s) at CeO_2 /GC electrode (**b**) Plot of Ep Vs log ν, (**c**) Plot of Ip Vs $\nu^{0.5}$ **(d)** Plot of Ip Vs ν

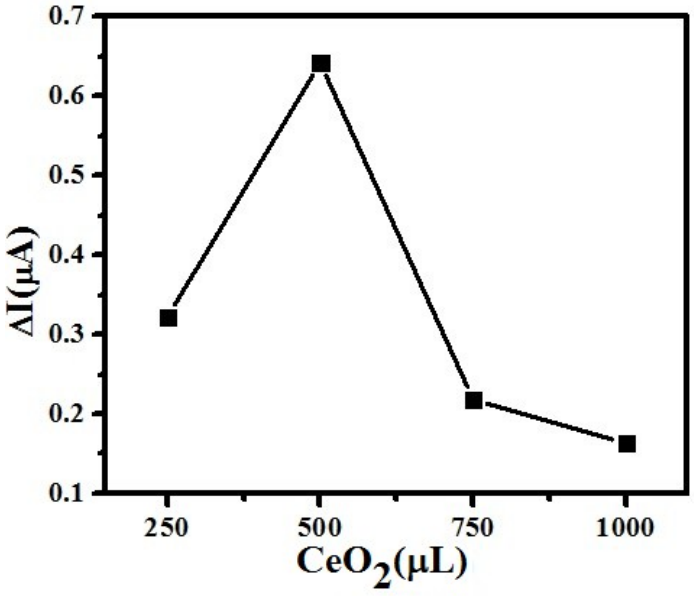

Fig.S3: Effect of volume of CeO_2 in nanocomposite on the peak current of acetaldehyde

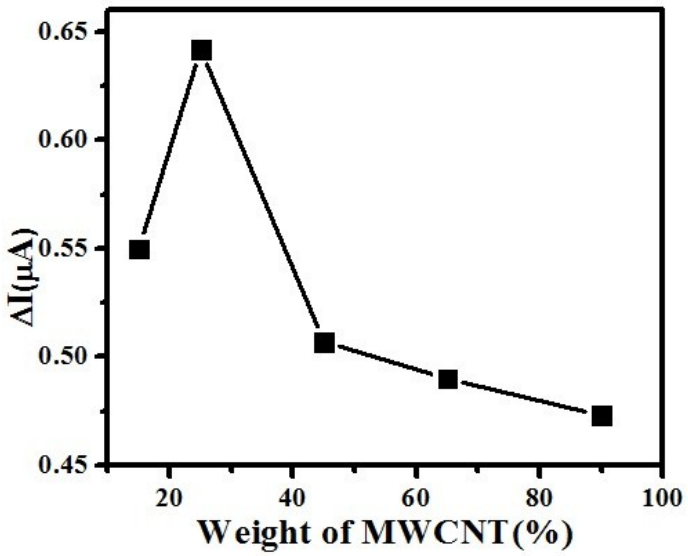

Fig.S4: Effect of weight% of MWCNT in nanocomposite on the peak current of acetaldehyde

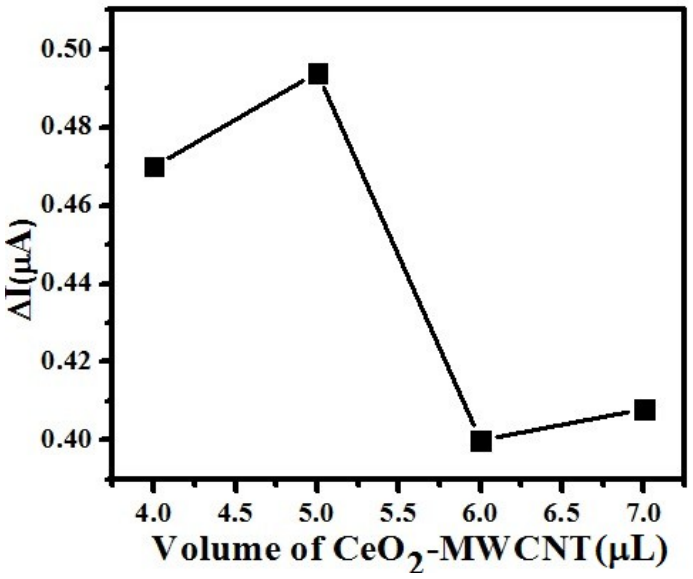

Fig.S5: Effect of drop casting volume of CeO_2/MWCNT nanocomposite on the peak current of acetaldehyde

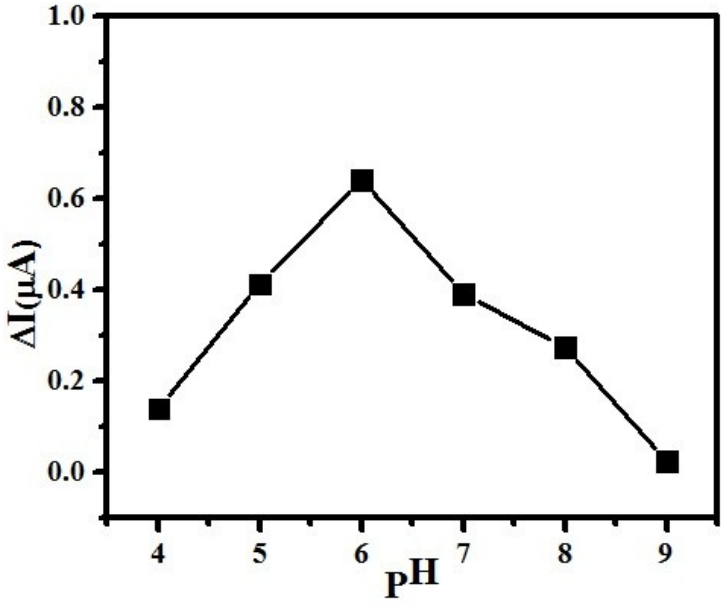

Fig.S6: Effect of pH of 0.1M KNO_3 solution on peak current of 10^{-6} M acetaldehyde