Carbon nanotubes and metal nanoparticles have been using as the modifiers developing sensitive novel chemical sensors, due to their electrical, mechanical characteristics and high surface area, in many researches[1-3].

Glassy carbon electrode (GCE) surface was modified with multiwalled carbon nanotubes (MWCNT) by dropping and then doped with some metal(Au, Cu, Pt and Ag) nanoparticles on to MWCNT-GCE surface by electrochemical methods, to improve the electrocatalytic activity of MWCNT modified GCE for simultaneous determination of ascorbic acid(AA), dopamine(DA) and uric acid (UA) in phosphate buffer( pH 7.00). The metal- nano particle dopped MWCNT modified GCE had strongly electrocatalytic activity toward the oxidation of AA, DA and UA and resolved overlapping voltammetric responses into well-defined peaks with a large peak potential differences. The electrocatalytic peak currents increased with increasing AA, DA and UA concentrations. The metal-nano dopped MWCNT modified GCE has exhibited excelent sensitivity and selectivity.

References