

Fabrication of TiO₂ Hollow Spheres and its Application in Modification of Carbon Paste Electrode For Simultaneous Determination of Dopamine and Piroxicam in the Presence of Ascorbic acid

Ali Babaei ^{1*}, Mohammad Moradi ¹, Masoud Sohrabi ¹, Samira Feshki ² and Maziar Marandi ²

¹ Department of Chemistry, Faculty of Science, Arak University, Arak, Iran

² Department of Physics, Faculty of Science, Arak University, Arak, Iran.

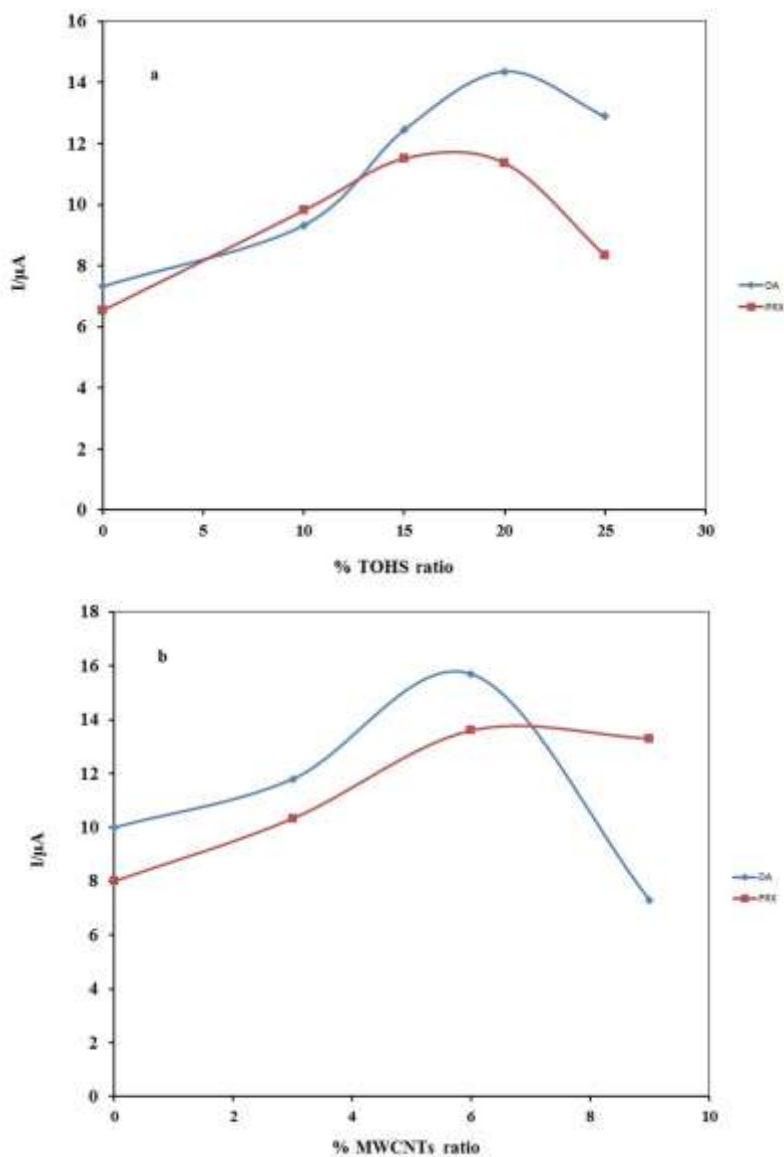


Fig. S1. Effect of the ratio of TOHS and MWCNTs on the sensor response. (a)The influence of the amounts of TOHS on the response of the sensor and (b) The influence of the amounts of MWCNTs on the response of the sensor

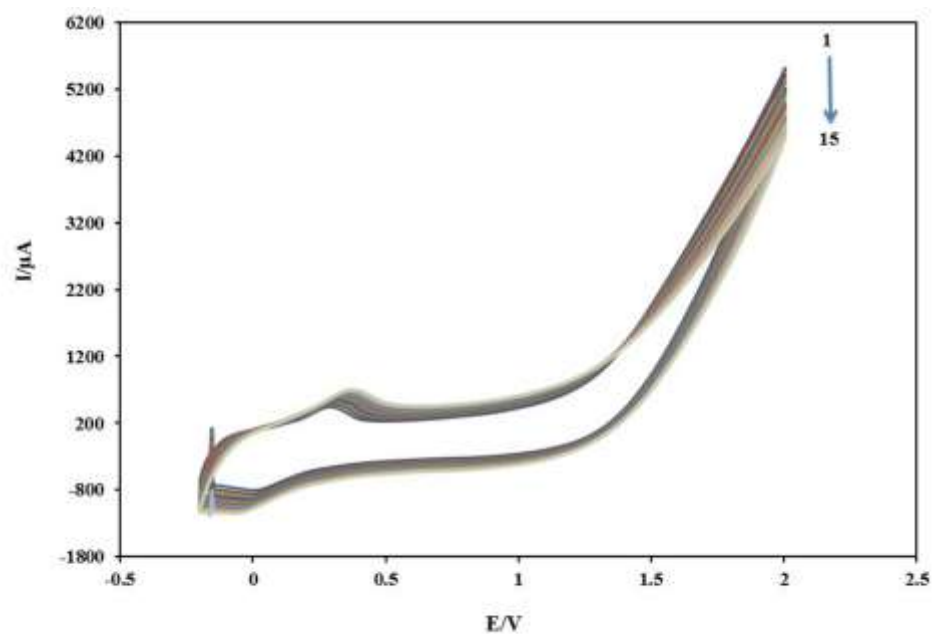


Fig. S2. Cyclic voltammograms of the electro-polymerization of Glutamic acid on TOHS/MWCNTs/CPE surface in 0.1M Ammonia buffer (pH 7.0) containing 0.05 M Glutamic acid in the potential range of -0.2 to 2.0 V at $100 \text{ mV}\cdot\text{s}^{-1}$ for 15 cycles

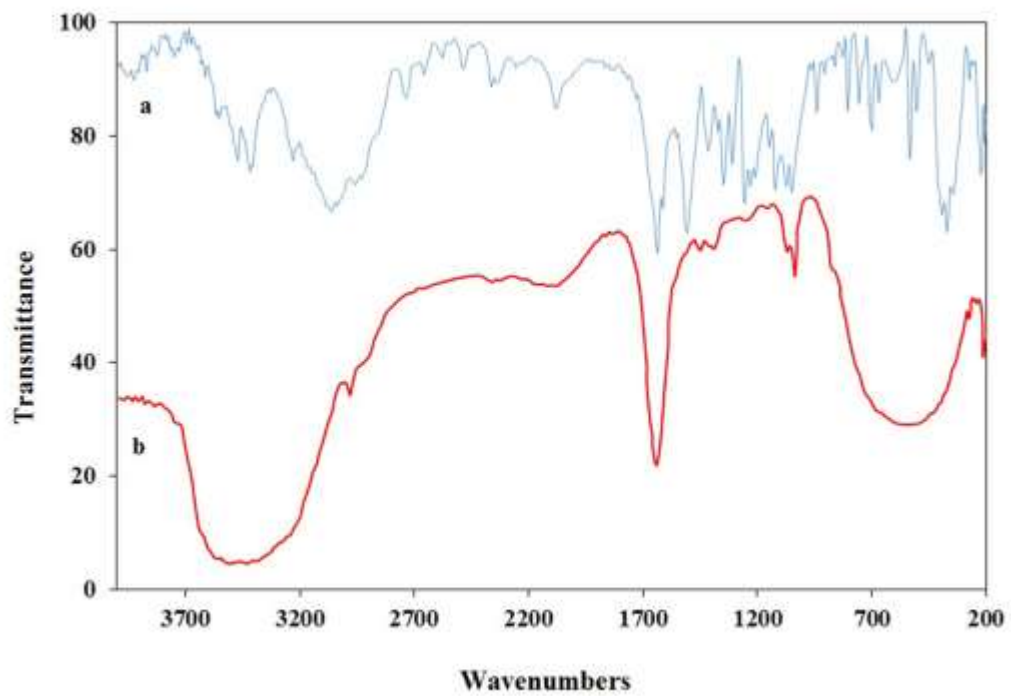


Fig. S3. The FTIR spectra of aspartic acid (a) and PGA film (b).