

عنوان مقاله:

Effect of functionalisation of multi walled carbon nanotube on detection of enzymatically generated thiocholine at carbon nanotube modified graphite electrode

محل انتشار:

پنجمین کنگره بین المللی مهندسی شیمی (سال: 1386)

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خلاصه مقاله:

The electrochemical activity of fore different carbon nanotube modified graphite electrodes, treated and functionalized with two methods has been assessed and compared. These treatment attaches COOH and OH groups to the multi-walled carbon nanotube (MWCNT). The amperometric thiocholine detection on MWCNT modified electrode at +750 mV enhance sensitivity about 37% and 22% compared to bare electrode and electrode modified with pristine CNT respectively and increase linear range 2.5×10^{-3} to 2.7×10^{-3} in bare electrode to 1.6×10^{-4} to 3×10^{-3} in electrode .modified with functionalized CNT

کلمات کلیدی:

Multi-walled carbon nanotube, electrochemical properties, thiocholine, functionalized carbon nanotube

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