

عنوان مقاله:

Modified carbon paste electrode with NiFe(2)O(4) nanoparticles as a sensor for determination of acetaminophen

محل انتشار:

همایش ملی نانو فناوری و شیمی سبز (سال: 1391)

تعداد صفحات اصل مقاله: 6

نویسندگان:

N Tavakkoli - *Department of Chemistry, Payame Noor University*

S Habibollahi - *Department of Chemistry, Payame Noor University*

Sh Safari - *Department of Chemistry, Payame Noor University*

H Salavati - *Department of Chemistry, Payame Noor University*

خلاصه مقاله:

A carbon paste electrode modified with NiFe(2)O(4) Nanoparticles have been applied to the electrocatalytic oxidation of acetaminophen (AC) which reduced the overpotential with obviously increase the current response. NiFe(2)O(4) nanoparticles showed an excellent electrocatalytic activity for the oxidation of AC and accelerated electron transfer between the electrode and AC. The linear calibration curve of AC was obtained in the range of 5.0×10^{-8} to 9.0×10^{-4} mol L⁻¹.

کلمات کلیدی:

Modified Carbon Paste Electrode; NiFe(2)O(4) Nanoparticles; Acetaminophen; Voltammetry

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