A disposable carbon-based electrochemical cell modified with carbon black and Ag/δ-FeOOH for non-enzymatic H2O2 electrochemical sensing

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Gráfico, Histograma

Descrição gerada automaticamente Gráfico, Gráfico de linhas

Descrição gerada automaticamente

B

A

Gráfico, Histograma

Descrição gerada automaticamenteGráfico, Gráfico de dispersão

Descrição gerada automaticamente

D

C

Gráfico, Histograma

Descrição gerada automaticamenteGráfico, Gráfico de dispersão

Descrição gerada automaticamente

F

E

Figure SI 1: Cyclic voltammograms resulting from increasing scan rate (10 -200 mV s-1) and plot peak current versus square root of the scan rate at DCell (A and B) and DCell modified with Ag/δ-FeOOH (C and D) and DCell modified with CB//Ag/δ-FeOOH (E and F) in 1mM of K3Fe(CN)6 and 1 mM of K4Fe(CN)6 in 0,1 M KCl pH 3,2.

**Table SI 1 - LOD values for other modified electrodes for H2O2 detection**

|  |  |  |
| --- | --- | --- |
| SAMPLE | LOD | REFERENCE |
| Ag/δ-FeOOH | 71 µM | [1] |
| CFP/*α*-FeOOH | 18 µM | [2] |
| PPy/CB/α-Fe2O3  Fe3O4 – BCAMW  Fe3O4/Gr/CC  CB//Ag/δ-FeOOH | 52,8 nM  503 µM  4,79 µM  21,6 µM | [3]  [4]  [5]  (This work) |

LOD = detection limit; LOQ = quantification limit.

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