#### عنوان مقاله:

An electrochemical acetaminophen sensor based on Law+/CowOF nanoflowers modified graphite screen printed electrode architecture

### محل انتشار:

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#### خلاصه مقاله:

In this study, the La٣+/Co٣OF nanoflowers were synthesized by co-precipitation method. The morphology of the La٣+/Co٣OFNFs were characterized using scanning electron microscopy (SEM), and were further used to modify the graphite screen printed electrode (GSPE). The electrochemical behavior of acetaminophen at La٣+/Co٣OFNFs/GSPE has been studied in aqueous solutions. Experimental results showed that the La٣+/Co٣OFNFs modified GSPE possess excellent electrocatalytic activity toward the detection of acetaminophen. Under optimum conditions, the La٣+/Co٣OFNFs modified electrode exhibited high sensitivity and stability to acetaminophen over a wide linear range of concentrations from •.ΔμΜ to ΥΔ•.•μΜ, with a detection limit of •.•٩μΜ. Finally, the proposed sensor was successfully applied to the detection of acetaminophen in real samples

# کلمات کلیدی:

Acetaminophen, Electrocatalytic activity, Graphite screen printed electrode, Law+/CowOF nanoflowers, Modified electrode

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