Voltammetric Techniques for Pesticides and Herbicides Detection- an Overview

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Pesticides and herbicides contamination in soil, groundwater, rivers, lakes, rainwater and air is considered a matter of concern. Some techniques are used to detect the presence of those compounds, here in this review is considered some recent voltammetric techniques such as cyclic voltammetry, square wave voltammetry, differential pulse, electrochemical impedance spectra and bifferential pulse polarography. Besides, the most used materials in their electrodes such as carbon, polymers, clay materials, biomolecules, metal oxides and micro and nanostructured materials are briefly considered. For all those techniques and materials are shown some current studies, researches and new approaches, considering their high sensitivity and specificity for pesticides and herbicides detection.

Keywords: Pesticides; Herbicides; Detection; Voltammetric techniques

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