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MODIFICATION AND PROGRESSIVE ADVANCEMENT IN THE FIELD OF ELECTROCHEMICAL SENSORS

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The progressive transformation in the field of electrochemical sensors has enhanced the great curiosity in the area of analytical chemistry. The recent advances in the field of electroanalysis i.e., applying electrodes modification by different type of materials such as ligands, conducting polymers, carbon paste, nanomaterials, nanocomposites, nanostructures (CNT, graphene), metallic nanoparticles or magnetic beads, molecular imprinted polymers etc., create the interest in designing electrochemical sensors. Numerous applications has been developed to date consist of voltammetric detection, electrochemical stripping analysis, electrochemiluminescence, as well as electrochemical biosensors and potentiometric sensors show promising progress in selection, binding or transduction characteristics and grasp the requirement goal for environmental control. These modifications have encouraged the field for exciting new potentials and approaches.

Biography

Karamjeet Kaur is doing her PhD in the field of Analytical Chemistry with research topic "Electrochemical Sensors", from Department of Chemistry, Punjabi University, Patiala, India. She has done projects during her MSc and MPhil. She has 2 publications, 1 book chapter (in press) and communicated 4 articles in reputed journals.

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