

Electrochemical Sensor Analysis



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"Electrochemical Sensor Analysis (ECSA)" presents the recent advances in electrochemical (bio)sensors and their practical applications in real clinical, environment, food and industry related samples, as well as in the safety and security arena. In a single source, it covers the entire field of electrochemical (bio)sensor designs and characterizations. The 38 chapters are grouped in seven sections: Potentiometric sensors, Voltammetric sensors, Electrochemical gas sensors, Enzyme-based sensors, Affinity biosensors, Thick and thin film biosensors and Novel trends. Written by experts working in the diverse technological and scientific fields related to electrochemical sensors, each section provides an overview of a specific class of electrochemical sensors and their applications. An accompanying CD-ROM contains 53 related analytical protocols detailing the steps required for practical applications and some design-related issues. Each protocol first describes the objectives of the procedure, followed by a detailed list of all the required materials, reagents, and solutions. The steps to prepare the (bio)sensor including its calibration, measurement sequences followed by sample treatment (if applied) and analysis are described in detail. Each procedure ends with some brief discussions of the typical results expected as well as with selected recommended literature. This interdisciplinary text will be useful for researchers and professionals alike. It covers applications and problem solving (sensitivity, interferences) in real sample analysis and details procedures to construct and characterize electrochemical (bio)sensors.

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目录:

[Electrochemical Sensor Analysis_ 下载链接1](#)

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