

Lab skills – Electrochemical methodologies



En bref

- **Langue(s) d'enseignement:** English
- **Forme d'enseignement :** Travaux pratiques
- **Ouvert aux étudiants en échange:** Non

Présentation

DESCRIPTION

This lab work sessions will focus on the use of various electrochemical techniques for the characterization and the analysis of electrochemical reactions and electrocatalytic processes. During five lab sessions (6h) several projects will be addressed: from a molecular point of view with the study of redox probes behaviors in solution to the analysis of inorganic materials for energy storage or conversion.

Each session is composed of a short introduction (1-2h) describing the different technics used during the lab session. Then the student (group of two) should investigate the synthesis/modification of materials/electrode, the properties of functional organic/inorganic layers using various electrochemical technics (from the cyclic voltammetry to the tafel plot).

A report for each session will be done and an oral defense of one subject will be done by each student.

HEURES D'ENSEIGNEMENT

Lab skills - Electrochemical methodologies	Cours Magistral	6h
Lab skills - Electrochemical methodologies	Travaux Pratiques	24h

PRÉ-REQUIS NÉCESSAIRES

UE “ Basis of Electrochemistry “

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CONTACTS

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LIEU(X)

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