

Catalyse de surface



Composante
École Nationale
Supérieure des
Ingénieurs en
Arts Chimiques



Volume horaire
31,33h

En bref

- > **Code:** LS1ZC2AP
- > **Ouvert aux étudiants en échange:** Oui

Présentation

Objectifs

1. Understand how solid catalysts work in a chemical reaction - *Knowledge*
2. Understand how modulate their reactivity - *Knowledge*
3. Describe various synthetic methods - *Comprehension*
4. Analyse data from characterization - *Analysis*
5. Compare and contrast data - *Synthesis*
6. Suggest ways to improve catalyst - *Evaluation*

Syllabus

- **Part I. Reactivity**
 - Reactivity descriptors (*d*-band center theory)
 - The active sites of catalysts and how to regulate their performances?
 - Catalyst deactivation
 - Guidelines for catalyst testing
- **Part II. Catalyst preparation and characterization**
- **Part III. Challenges in developing new catalytic materials and technologies for a cleaner and sustainable future**

Informations complémentaires

CM + TD