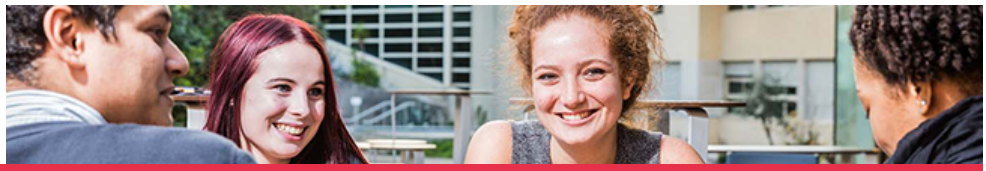

Materials for catalysis M2

Niveau d'étude
BAC +5

ECTS
3 crédits

Composante
Faculté des Sciences

En bref

- **Date de début des cours:** 1 sept. 2021
- **Langue(s) d'enseignement:** Anglais
- **Méthode d'enseignement:** En présence
- **Organisation de l'enseignement:** Formation initiale
- **Ouvert aux étudiants en échange:** Non

Présentation

Description

Thermodynamic and kinetic bases to understand the optimal conditions for catalytic reactions and the requirement of activity and accessibility of catalysts.

Methods for the preparation of porous and dispersed catalysts by nucleation-growth, aggregation and templating mechanisms.

Correlations between structural properties and activity of heterogeneous catalysts.

Examples of applications of heterogeneous catalysts to processes of refining and industrial chemistry.

Further on basic concepts of photocatalysis and electrocatalysis are explored

Volumes horaires* :

CM : **17 h**

TD : **8 h**

Objectifs

Getting familiar with catalytic reactions of industrial interest, characterization of the textural and surface properties of catalysts, synthetic aspects of catalysts

Pré-requis nécessaires

Basic knowledge of fundamental concepts in Chemistry, Physics, and Solid State Science (Bachelor degree program)

Contrôle des connaissances

CC

Syllabus

Thermodynamic and kinetic bases to understand the optimal conditions for catalytic reactions and the requirement of activity and accessibility of catalysts.

Informations non contractuelles.
Dernière mise à jour le 14 février 2023

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Examples of applications of heterogeneous catalysts to processes of refining and industrial chemistry.

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Informations complémentaires

Contact(s) administratif(s) :

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https://master-chimie.edu.umontpellier.fr/

Infos pratiques

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Lieu(x)

- Montpellier - Triolet

Informations non contractuelles.
Dernière mise à jour le 14 février 2023