Chimie supramoléculaire - Récepteurs moléculaires synthétiques

Lecturers
Ivan JABIN (Coordinator) and Michel LUHMER

Course mnemonic
CHIM-F418

ECTS credits
5 credits

Language(s) of instruction
French

Course period
Second term

Course content

Advanced desctiption of the intermolecular interactions. Introduction to the characterization of supramolecular assemblies. Introduction to supramolecular and macrocyclic chemistry. Advanced desctiption of the syntheses and applications of the different classes of synthetic receptors.

Objectives (and/or specific learning outcomes)

To present and discuss the fundamental principles of molecular recognition, supramolecular chemistry and the characterization of supramolecular assemblies. To present the different classes of synthetic receptors and their applications.

Teaching method and learning activities

Powerpoint presentations.

References, bibliography and recommended reading

Israelachvili J.; Intermolecular and Surface Forces, Academic Press 2nd ed. 1992(ISBN 0123751810) ; i*l existe une nouvelle édition (2007, ISBN 0123751829).*

Hinchliffe A., Munn R.W.; Molecular Electromagnetism, John Wiley & Sons 1985 (ISBN 0471907219).

Atwood J.L., Steed J.W.(Editors); Encyclopedia of Supramolecular Chemistry, 2004.

Steed J.W., Atwood J.L.; Supramolecular Chemistry, Wiley & Sons Limited 2nd Ed. 2009 (ISBN 0470512334).

Other information

Contact(s)

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Evaluation method(s)

Other

Evaluation method(s) (additional information)

Oral examination + reports for the practical work

Determination of the mark (including the weighting of partial marks)

Oral examination (80 %) + practical work (20 %)

Main language(s) of evaluation

French

Programmes

Programmes proposing this course at the faculty of Sciences

MA-CHIM | Master in Chemistry | finalité Research/unit 1, finalité Teaching/unit 1 and finalité Professional/unit 1