UCL Faculté des sciences

SC

CHIM2310 Photochimie

[22.5h] 2.5 credits

Teacher(s): Johan Hofkens, Jean-Philippe Soumillion
Language: french
Level: 2nd cycle course

Aims

This course, situated in the field of organic physical chemistry, aims at giving the students the principals of excited state levels formation under visible UV rays. It must allow them to evaluate in a plausible way the reactivity of this excited state and its monomolecular evolution (photo physical) as well as its transformations by bimolecular interactions. The student will have to be able to use the principals given in class to optimise a reaction in the laboratory.

Main themes

The main themes are : light-material interaction and the laws of absorption, the notions of competitive kinetics and the life time that constitutes the base of photochemical reactions, the notions of electron and energy transfer reactions, the bases of the radiation emission phenomenon and in particular the fluorescence and its use to decipher a mechanism.

Other credits in programs

CHIM22	Deuxième licence en sciences chimiques	(2.5 credits)