Laboratoire PPSM – UMR CNRS 8531

Photochimie et Photophysique Supramoléculaires et Macromoléculaires

Séminaire PPSM

Mardi 1er octobre 2019 - 11h00

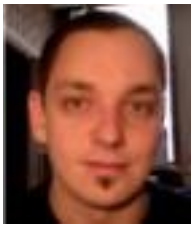
Auditorium D. Chemla - Bâtiment IDA

Docteur Mickaël MENAND

Institut Parisien de Chimie Moléculaire (IPCM), Sorbonne Université, France

Invité par : Joanne Xie

«Cyclodextrin capped by an expanded porphyrin: aromaticity and topologyswitching under chiral influence.»



Inspired by early reports concerning the association of Cyclodextrins to porphyrins targeting artificial enzymes, we designed new hybrids based on the association of a cyclodextrin to an expanded porphyrin (i.e. an hexaphyrin unit). Their combination affords a chiral confined space capped by a coordinating subunit with promising features for the development of biomimetic catalysts. Furthermore, such an association offers a range of new opportunities in the development of multi-responsive devices based on the accessible redox and (anti)aromatic states of the hexaphyrin subunit. We will discuss these properties spanning from tunable confined spaces to switchable (anti)aromaticity with a special emphasis on Möbius topology under chiral influence.

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