Titre de la

CONFÉRENCE

Disk-shaped organic semiconductors: From flexible electronics to photocatalytic applications

Directeur
Professeur:
Abdelaziz
BOUAZIZI

Jeudi

03 | 11 | 2022

14h:00m

Salle des thèses

Pr. Berta Gomez-Lor

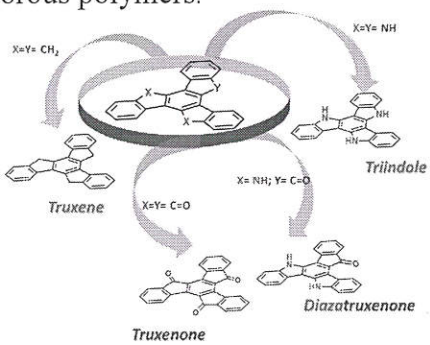
Université de Monastir
Faculté des Sciences de Monastir
Ecole Doctorale Matériaux, Dispositifs et Microsystèmes
مـــدرســـة دكتوراه" مـواد و أدوات و أنـظـمـة دقـيـقـة" **(ED: 08FSM01)**

CONFÉRENCE

Madame **Berta Gomez-Lor**, Directrice de Recherche et Responsable du groupe d'électronique organique à l'Institut des Sciences des Matériaux de Madrid, donnera une conférence intitulée:

"Disk-shaped organic semiconductors: From flexible electronics to photocatalytic applications"
Jeudi le 03 Novembre 2022 à 14H00 à la salle des thèses

Abstract :
Truxene is a semiconducting molecule that can be considered as a 1,3,5-triphenylbenzene planarized through three bridging methylene groups, giving rise to adisk-shaped π-conjugated heptacyclic system. By varying the nature of the bridging units, different molecules can be obtained that share the geometry of truxene but show a completely different redox and semiconducting behavior. Thus, the structurally related truxenone, triindole or diazatruxenone behave as n-, p- type and ambipolar semiconductors respectively. Due to their planar trigonal topology, these molecules are of great interest not only in the development of self-assembling materials for applications in flexible electronics but also as building blocks in the construction of semiconductor COFs and porous polymers.



In this talk I will present our achievements in the development of high mobility self-assembling molecular materials based on different truxene-related platforms for their incorporation into electronic devices. We will also present our efforts in the synthesis of new high-surface porous polymers based on truxene monomers as well as the tuning of their electronic properties (energy levels, π-conjugation or exciton/ charge transport…) and porous character towards their potential use in applications ranging from photocatalysis, solar-to-chemical energy conversion or sensing .

Les Doctorant(e)s sont invité(e)s à assister à la conférence.

Le Directeur de l'Ecole Doctorale
Pr. Abdelaziz Bouazizi

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