

Séminaire - Prof. Piotr Kaszynski

Jeudi 19 Octobre 2017, 14h - salle S112

Le 18 octobre 2017



Séminaire

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Titre: "Liquid Crystalline Derivatives of closo-Boranes as Novel Materials for Display and Battery Applications"

ABSTRACT

A recently discovered method for selective activation of the B–H bonds in closo-borates towards nucleophilic substitution through arylodonium zwitterions[1] has opened up a convenient access to a large variety of polar and ionic self-organizing materials.[2] Such zwitterions are easily obtained from closo-borates and $\text{ArI}(\text{OAc})_2$ and undergo facile reactions with nucleophiles according to the 10-1-3 or 9-1-2 mechanism. Appropriate derivatization of the resulting functionalized closo-borates leads to polar or ionic liquid crystals. The former are pyridinium, sulfonium, or quinuclidinium zwitterionic derivatives I and II, and are of interest as high dielectric anisotropy ($\Delta\epsilon$) additives to materials for LCD applications. [3] Ionic liquid crystals (ILC) are being developed as anisotropic ion conductors (electrolytes) for battery applications.

[en savoir plus](#) 

Pr. Kaszynski donnera aussi des cours aux étudiants de Master, au sujet des **radicaux organiques stables**, et vous êtes invités à nous rejoindre :

- Jeudi 19 octobre, de 8h00 à 11h00, salle 35

- Vendredi 20 octobre, de 8h00 à 9h40, salle 23