



Société Chimique de France

Section Régionale
Champagne-Ardenne

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Jeudi 10 Octobre 2019 - 11h00

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Circular dichroisms and circularly polarized luminescence

of small organic molecules

Chirality is ubiquitous phenomena in biology and chemistry. In chemistry, molecular chirality is defined as non-superimposable geometry on its mirror image and plays crucial roles in biological activity. Recently, chiral materials are extensively explored for 3D displays/endoscopes, information storage/communication, as well as studying of excited-state chirality and enantioselective sensors. There exist various types of chiral molecules; e.g., molecules with point chirality, axial chirality, planar chirality, and helical chirality. Our endeavor has been initiated to understand the relationship between chiroptical property and molecular structure. Recent investigation on functional chiroptical materials such as propeller chiral hexaarylbenzenes will be also demonstrated with an emphasis on their circularly polarized luminescence.