# Multiple coordination in porphyrinoid hybrid: changing the delocalization within the extended π-system.

Autorzy

Miłosz Pawlicki

Rok wydania

2020

Czasopismo

Synlett

Numer woluminu

31

Strony

1-6

DOI

10.1055/s-0039-1690748

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

π-Extended and strongly coupled chromophores are constantly explored because of their potential for finding a place in many fields of research focusing on both aspects – the fundamental knowledge and the application studies. The synthetic approach leading to controlled formation of porphyrinoid system with two coordination cores shows an alternative way for controlling the delocalization within the extended π-system. It drastically influences the optic response which after a basic initiator (reversibly) shifts the absorbance to the red region following the significant planarization that increases observed communication between two subunits. Even deeper modification can be done within the system by doping the obtained structure with boron(III) that in addition introduces another switching factor based on Lewis acidity of the introduced metalloid.

Słowa kluczowe

aromaticity, boron, porphyrinoids, triphyrins, π-delocalization, polycyclic aromatic hydrocarbons (PAHs)

Adres publiczny

http://dx.doi.org/10.1055/s-0039-1690748

Strona internetowa wydawcy

https://www.thieme.com/