

21世紀COE講演会

講演者 Stephen G. DiMagno

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演 題 “Fluorinated Porphyrins: From Physical Properties to Fuel Cell Applications”

日 時 11月4日(金) 14:30 ~ 16:00

場 所 京都大学桂キャンパス A2棟302号室

[Abstract]

Ring fluorination of porphyrins offers the opportunity to modulate porphyrin electronic properties with minimal steric interference. Because the coordination geometry is practically unchanged by fluorine substituents, simple electronic arguments suffice to predict changes in the reactivity at chelated metal centers in these ligands. This talk will summarize briefly the synthesis of fluorinated porphyrins, their optical, structural, and electrochemical properties, and conclude with a description of new catalytic chemistry of fluorinated metalloporphyrins.

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