Special Issue

Synthesis and Characterization of Peripherally Functionalized Porphyrazines and Phthalocyanines

Message from the Guest Editors

Porphyrazines and phthalocyanines, also known as tetraazaporphyrins, are synthetic members of the porphyrinoid family. They comprise pyrrole or isoindole moieties, respectively, linked by nitrogen bridges in the form of macrocyclic rings, able to bind metal cations at their center. Porphyrazines and phthalocyanines feature an extended aromatic system with 18 conjugated π-electrons, contributing to their stability and optical properties, including visible and ultraviolet light absorption. Additionally, tetraazaporphyrins' ability to emit fluorescence after light irradiation is employed in photodynamic diagnosis. Porphyrazines and phthalocyanines can also catalyze oxidation and reduction reactions, especially when coordinating d-block metal ions like iron and manganese, which enables them to serve as electrocatalysts.

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