21-Carbaporphyrin: a cyclopentadiene moiety entrapped into a porphyrin scaffold.

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Streszczenie

This minireview underscores the chemistry of 21-carbaporphyrins containing a plain cyclopentadiene moiety. Thus the cyclopentadiene incorporation afforded two 21-carbaporphyrin series represented by *meso*-tetraaryl-21-carbaporphyrin and β-alkylated 21-carbaporphyrin with their properties evidently controlled by the nature of perimeter substitution. The synthetic strategy, physicochemical characterization and some insight in coordination properties of 21-carbaporphyrins have been illustrated. The formation of palladium(II), rhodium(III) and gold(III) *meso*-tetraaryl-21-carbaporphyrins *via* unprecedented intramolecular contractions of *meta*-benzi- or *para*-benziporphyrins has been also addressed.

Słowa kluczowe

porphyrinoids, porphyrin, 21-carbaporphyrin, C-C bond activation, C-C bond cleavage, rhodium, palladium, gold

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