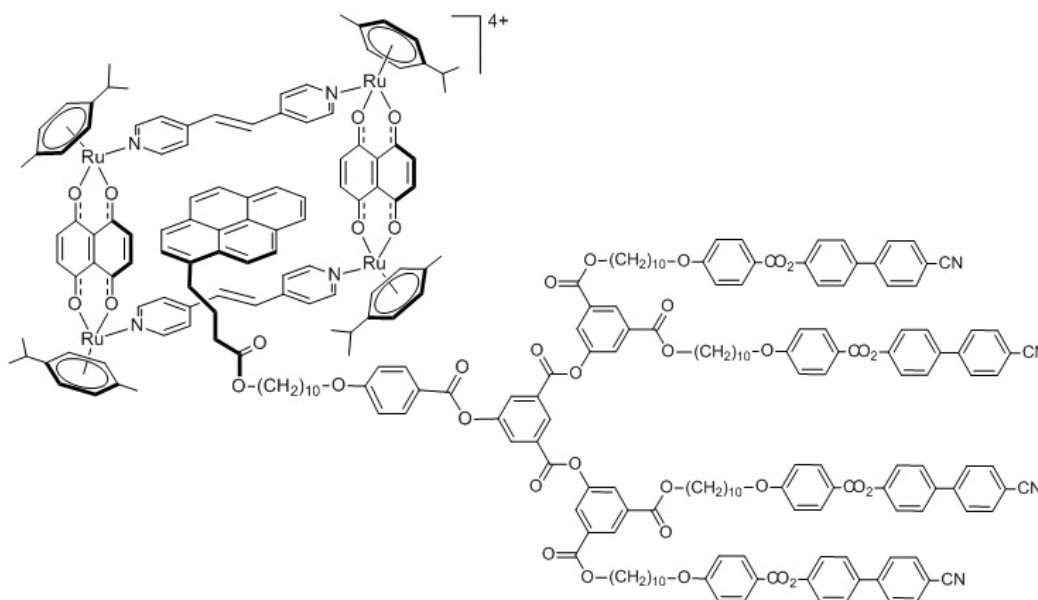


Designing supramolecular liquid-crystalline materials from pyrenyl-dendrimers by encapsulation in metallacycles.

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Metallacontainers have garnered great deal of attention owing to their prominent applications in different fields like molecular recognition, host-guest chemistry, crystal engineering, biomedical, and molecular devices.¹ Herein, arene ruthenium metallacycles containing pyrenyl-dendrimers are reported. This kind of hybrid metallo-gens combines the properties of metal ions and the mesogenic nature of dendrimers. These hybrid materials can generate compounds with interesting magnetic, optical or electro-optical properties. The cavity of these systems leads to the complexation of the pyrenyl moiety in the hydrophobic cavity of the cage, while the dendritic functions remain outwards.² This arrangement has allowed us to design a new supramolecular system with liquid-crystalline properties.³



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