



Università degli Studi
di Camerino



Società Chimica Italiana
Divisione di Chimica Organica

XXXIII CONVEGNO NAZIONALE
DELLA DIVISIONE DI CHIMICA ORGANICA
SOCIETÀ CHIMICA ITALIANA



12-16 SETTEMBRE 2010
CENTRO CONGRESSI PALARIVIERA
SAN BENEDETTO DEL TRONTO (AP)



Atti del Convegno

NANOCAPSULES, NANOCAGES AND METAL-ORGANIC FRAMEWORKS FROM ENANTIOMERICALLY PURE BENZOCYCLOTRIMERS

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The number of effective *syn*-diastereoselective syntheses of functionalised benzocyclotrimers has increased during the last five years. The availability of these compounds prompts applications in supramolecular chemistry. Indeed, enantiopure functionalized benzocyclotrimers have been used for the synthesis of nanocapsule,¹ nanocages² and metal organic-frameworks able to include suitable guests (Figure 1).

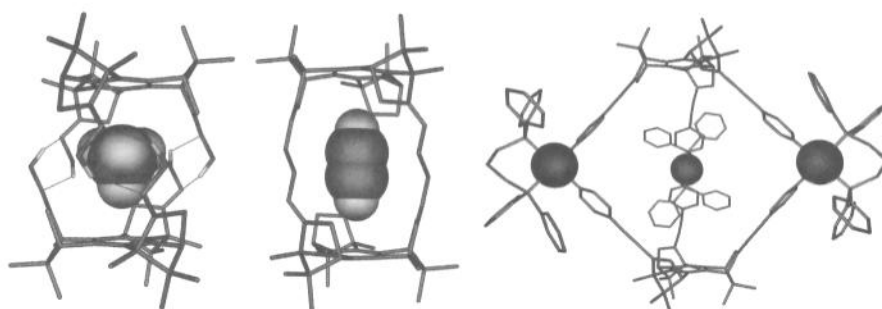


Figure 1

More recently, an original benzocyclotrimer bearing azo-substituents has been obtained, which can behave as a light-responsive molecular basket.

References:

- 1) Scarso, A. Pellizzaro, L. De Lucchi, O. Linden, A. Fabris, F. *Angew. Chem. Int. Ed.* **2007**, *46*, 4972-4975.
- 2) Tartaglia, S.; Scarso, A.; Padovan, P.; De Lucchi, O.; Fabris, F. *Org. Lett.* **2009**, *11*, 3926-3929.