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Index Abstracts

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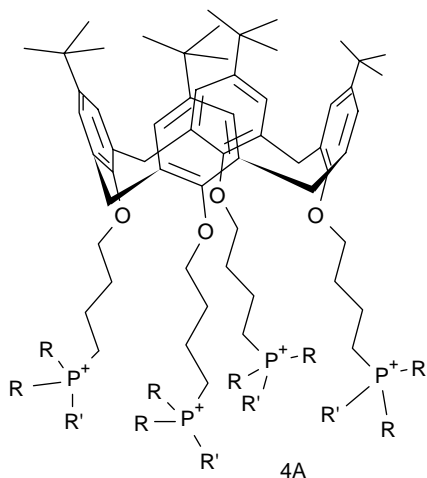
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Index Abstracts

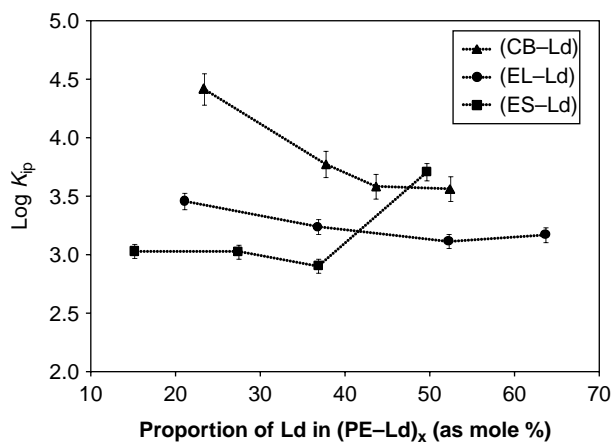


Radoslaw Pomecko, Zouhair Asfari,
Véronique Hubscher-Bruder, Maria Bochenska
and Françoise Arnaud-Neu

Anion recognition by phosphonium calix[4]ar-
enes: synthesis and physico-chemical studies

275–288

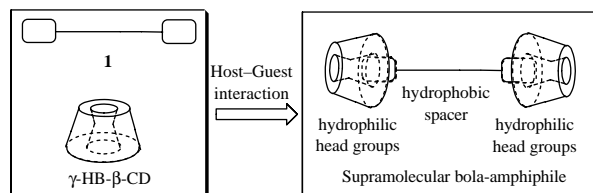
The properties as drug carriers
of PE drug dispersions (PE–D)
arise from the ionic (PE–D)
condensation affinity K_{ip} that
are reported as a function of D
loading and PE structure.



M.S. Arduzzo, R.H. Manzo
and A.F. Jimenez-Kairuz

Comparative study of three
structurally related acid poly-
electrolytes as carriers of
basic drugs: Carbomer,
Eudragit L-100 and S-100

289–296



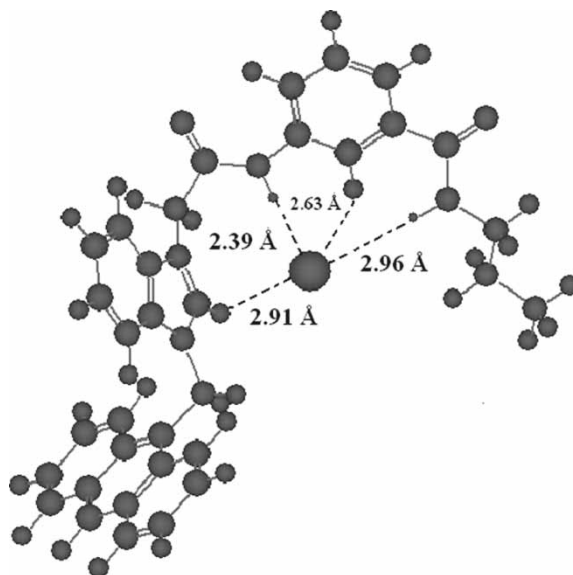
Multi-responsive cyclodextrin vesicles (CDVs) self-assembled by ‘supramolecular bola-amphiphiles’, consisting of the guest (*N,N'*-bis(ferrocenylmethylene)-diaminohexane, **1**) and the host (γ -hydroxybutyric- β -cyclodextrin, γ -HB- β -CD), were prepared and investigated here. The morphologies and sizes of these novel vesicles in water were observed by transmission electron microscopy (TEM) and confirmed by scanning electron microscopy (SEM) and dynamic light scattering (DLS). The effects of the host–guest ratio, the concentration and the solvent composition are also discussed. The host–guest interactions, complex stoichiometry and structures of **1**· γ -HB- β -CD in water were investigated by cyclic voltammetry, UV, ^1H NMR and 2D ROESY NMR spectroscopy. According to the complex stoichiometry, TEM observations and Chem3D estimation, the ‘supramolecular bola-amphiphiles’ made from **1**· γ -HB- β -CD formed the membranes of the CDVs. The CDVs system was responsive to an oxidising agent, which is the first report on redox-responsive systems in this field. They were also stable in methanol–water mixtures and the effect of added methanol solvent is described in detail. The CDVs were responsive to pH and the presence of metal ions, such that they disassemble upon addition of acetic acid or Cu^{2+} ions, providing possible routes to drug delivery systems. This kind of vesicle system could pave the way to combine supramolecular host–guest chemistry and membrane chemistry for potentially functional applications.

Huacheng Zhang, Jian Shen, Zhaona Liu, Aiyu Hao, Yan Bai and Wei An

Multi-responsive cyclodextrin vesicles assembled by ‘supramolecular bola-amphiphiles’

297–310

A new anthracene-appended benzimidazolium-based receptor **1** has been designed and synthesised. The receptor shows selective recognition of iodide in the excited state by exhibiting quenching of emission of anthracene. The interaction properties of the new receptor were evaluated by ^1H NMR, UV–vis and fluorescence spectroscopic methods.

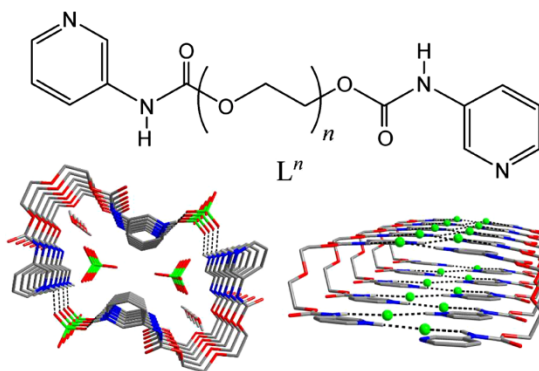


Kumares Ghosh and Indrajit Saha

A new benzimidazolium receptor for fluorescence sensing of iodide

311–317

Three anion complexes with a doubly protonated flexible bis(pyridylcarbamate) receptor have been synthesised which feature novel anion-binding modes, such as the hydrogen-bonded 1D channels constructed by ligand L^2 with perchlorate or chloride anion.



Yana Xia, Biao Wu, Shaoguang Li, Zaiwen Yang, Yanyan Liu and Xiao-Juan Yang

Anion binding of a bis(pyridylcarbamate) receptor bearing a diethylene glycol spacer

318–324