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## Supramolecular Chemistry

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## Index Abstracts

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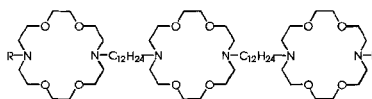
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## Index Abstracts

Synthetic channels are reported that conduct  $\text{Na}^+$  through a phospholipid bilayer.

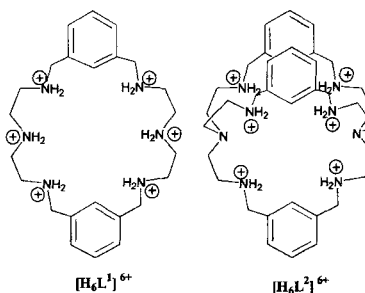


Hossein Shabany, Riccardo Ferdani and George W. Gokel

Hydraphile Synthetic Channel Compounds: Models for Transmembrane, Cation-conducting Transporters

391–404

Two polyammonium macrocyclic receptors for anions, a monocycle and bicycle, have been synthesized, structurally characterized, and examined for binding propensities for fluoride ion. Results indicate significant affinity and fluoride encapsulation in the bicycle.

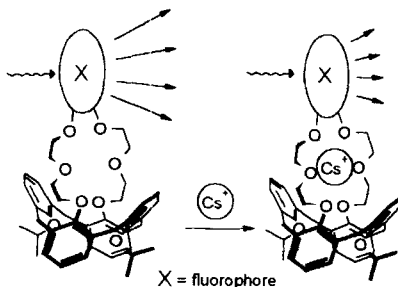


Juan A. Aguilar, Thomas Clifford, Andrew Danby, José M. Linares, Susan Mason, Enrique García-España and Kristin Bowman-James

Fluoride Ion Receptors: A Comparison of a Polyammonium Monocycle *Versus* its Bicyclic Corollary

405–417

Calix[4]arene-crowns-6 bearing fluorophoric units in the ether bridge, which show a change in their luminescence upon cesium binding, were synthesized.

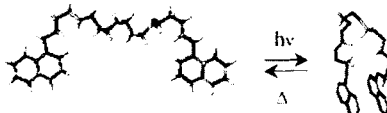


Alessandro Casnati, Federico Giunta, Francesco Sansone, Rocco Ungaro, Marco Montalti, Luca Prodi and Nelsi Zaccheroni

Synthesis, Complexation and Photophysics of 1,3-alternate Calix[4]arene-crowns-6 Bearing Fluorophoric Units on the Bridge

419–434

A fluorescent chemosensor containing a pentaethylenehexamine receptor unit connected through methylenic spacers to two naphthalene units has shown to form an excimer species in the excited state prompted by a bending movement of the chain. The system can be viewed as an elementary machine driven by light.

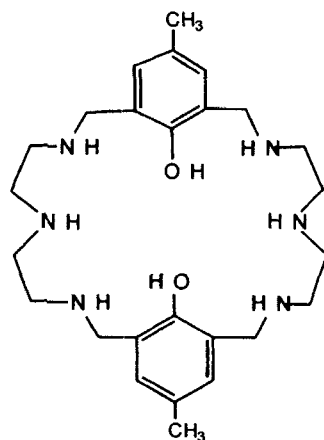


M. Alexandra Bernardo, Sérgio Alves, Fernando Pina, J. Seixas de Melo, M. Teresa Albelda, Enrique Garcia-España, José Miguel Llinares, Conxa Soriano and Santiago V. Luis

Polyamine Linear Chains Bearing Two Identical Terminal Aromatic Units. Evidence for a Photo Induced Bending Movement

435–445

Mononuclear and dinuclear cobalt complexes with BDBPH have been determined in water solution. Dioxygen adduct of the dinuclear cobalt complex was formed with high oxygenation constant:  $\log K [\text{Co}_2\text{LO}_2] = 13.29$ .

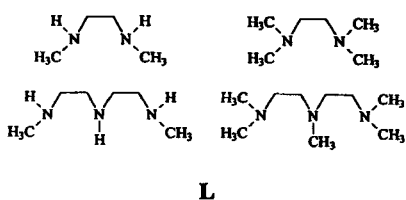


Deyuan Kong, Ramunas J. Motekaitis and Arthur E. Martell

Mononuclear and Dinuclear Cobalt Complexes and its Dioxygen Adduct with a New 24-membered Hexaaza Macrocyclic Ligand

447–453

The thermodynamic parameters for the Ag(I) complexation with N-methylated polyamines (L) have been determined in dimethylsulfoxide at 298 K and 0.1 mol dm<sup>-3</sup> ionic strength (NEt<sub>4</sub>ClO<sub>4</sub>) using potentiometric and calorimetric techniques.

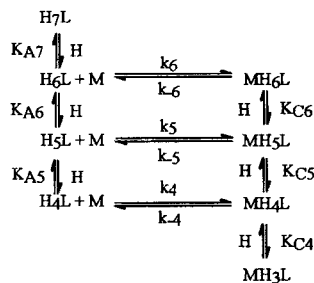


Clara Comuzzi, Veronica Novelli, Roberto Portanova and Marilena Tolazzi

The Complexation Reactions of Silver(I) in Dimethylsulfoxide

455-460

The kinetics and the equilibria of complex formation between Co(II) and the linear polyamine 1,25-dimethyl-1,4,7,10,13,16,19,22,25-nonaazapentacosane (Me<sub>2</sub>Octaen) have been investigated under anaerobic conditions and the reaction mechanism is discussed.

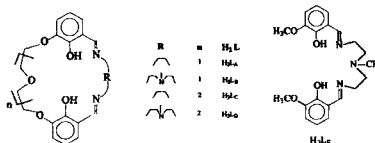


Tarita Biver, Rodolfo Pardini, Fernando Secco, Maria Rosaria Tiné and Marcella Venturini

Kinetics of Complex Formation Between Cobalt(II) and the Polyamine Me<sub>2</sub>Octaen

461-467

Mononuclear and heterodinuclear complexes of the ligands H<sub>2</sub>L<sub>A</sub>-H<sub>2</sub>L<sub>D</sub> with Ni<sup>2+</sup>, Cu<sup>2+</sup>, Co<sup>2+</sup>, Mn<sup>3+</sup> and Na<sup>+</sup> have been prepared and characterized. Thermodynamic data have been obtained for the systems Co<sup>2+</sup>/H<sub>2</sub>L<sub>B</sub> and Co<sup>2+</sup>/H<sub>2</sub>L<sub>E</sub> in dimethylsulfoxide.

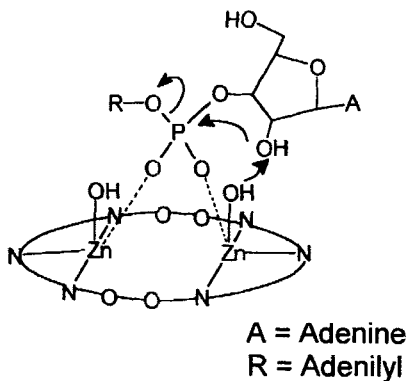


Alberto Cassol, Plinio Di Bernardo, Pier Luigi Zanonato, Sergio Tamburini, Patrizia Tomasin and Pietro Alessandro Vigato

New Complexes of Ditopic Ligands with "d" and/or "s" Metal Ions

469-488

ApA hydrolysis is promoted by the binuclear Zn(II) complexes with ligand **L1** (**L1** = 1,4,7,16,19,22-hexaza-10,13,25,28-tetraoxacyclotriacontane); substrate activation through a bridging coordination of the phosphate unit to the two metal centers is followed by deprotonation of the 2'-OH group of ApA, which may act as nucleophile in the cleavage process.

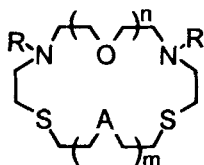


Andrea Bencini, Emanuela Berni, Antonio Bianchi, Claudia Giorgi and Barbara Valtancoli

ApA Cleavage Promoted by Oxaaza Macrocycles and Their Zn(II) Complexes. The Role of pH and Metal Coordination in the Hydrolytic Mechanism

489-497

Sixteen new diazadi(or tri)thia-crown ethers containing two 5-substituent(or 2-methyl)-8-hydroxyquinolin-2-ylmethyl side arms have been prepared by a three-step process.



R = 8-hydroxyquinolin-7-ylmethyl derivatives

Jerald S. Bradshaw, Hua-Can Song, Guo-Ping Xue, R. Todd Bronson, Joseph A. Chiara, Krzysztof E. Krakowiak, Paul B. Savage and Reed M. Izatt

Synthesis of Diazadi(and tri)thia-crown Ethers Containing Two 5-Substituent(or 2-methyl)-8-hydroxyquinoline Side Arms

499-508