

Macrocyclic Chemistry

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Contributions of the International Symposium on Macrocyclic Chemistry to the Development of Macrocyclic Chemistry.- From Functionalised Catenanes, Rotaxanes and Knots to Higher Interwined Assemblies.- Towards Functional Macrocycles: Self-Assembly and Template Strategies.- Recent Developments in the Synthesis and d-Block Chemistry of Linked Multi-Ring Macrocyclic Ligands.- Binding and Structural Aspects of Nitrile- and Amino-Functionalised Pendant Arm Derivatives of 1,4,7-Triazacyclononane ([9]aneN₃).- Azamacrocyclic Systems with Different Supramolecular Functions.- Sensing, Templatation and Self-Assembly by Macrocyclic Ligand Systems.- Signalling Reversible Anion Binding in Aqueous Media.- Ion-Pair Recognition by Ditopic Macrocyclic Receptors.- Cyclic and Acyclic Amidopyrrole Containing Anion Receptors.- Structural Aspects of Halides with Cryptands.- Oxoanion Selectivity with Protonated Azacryptate Hosts: The Influence of Hydration of Structure and Stability.- Cyclodextrin Combinations with Azocompounds.- Ru(II) and Os(II) Complexes of a Shape-Persistent Macrocyclic Ligand: Synthesis, Photophysical Properties and Electrochemical Characterization.- Macrocyclic Systems with Photoswitchable Functions.- Model Systems for Biological Processes.- Recognition of Cytochrome CBY Tetraphenylporphyrin Based Protein Surface Receptors.- Supramolecular Complexes with Macrocycles: Surprises and Insights.- Calorimetry: An Indispensible Tool in the Design of Molecular Hosts.- Modeling of Macrocyclic Ligand Complexes.- Simulations of the Dynamics of 18-Crown-6 and Its Complexes: From the Gas Phase to Aqueous Interfaces with SC-CO₂ and a Room-Temperature Ionic Liquid.- Application of Macrocyclic Ligands to Analytical Chromoatography.- Ligand Design for Base Metal Recovery.- Use of Macrocycles in Nuclear-Waste Cleanup: A Real-World Application of a Calixxrown in Cesium Separation Technology.- Texaphyrin Conjugates, Progress Towards Second Generation Diagnostic and Therapeutic Agents.- Appendix.

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