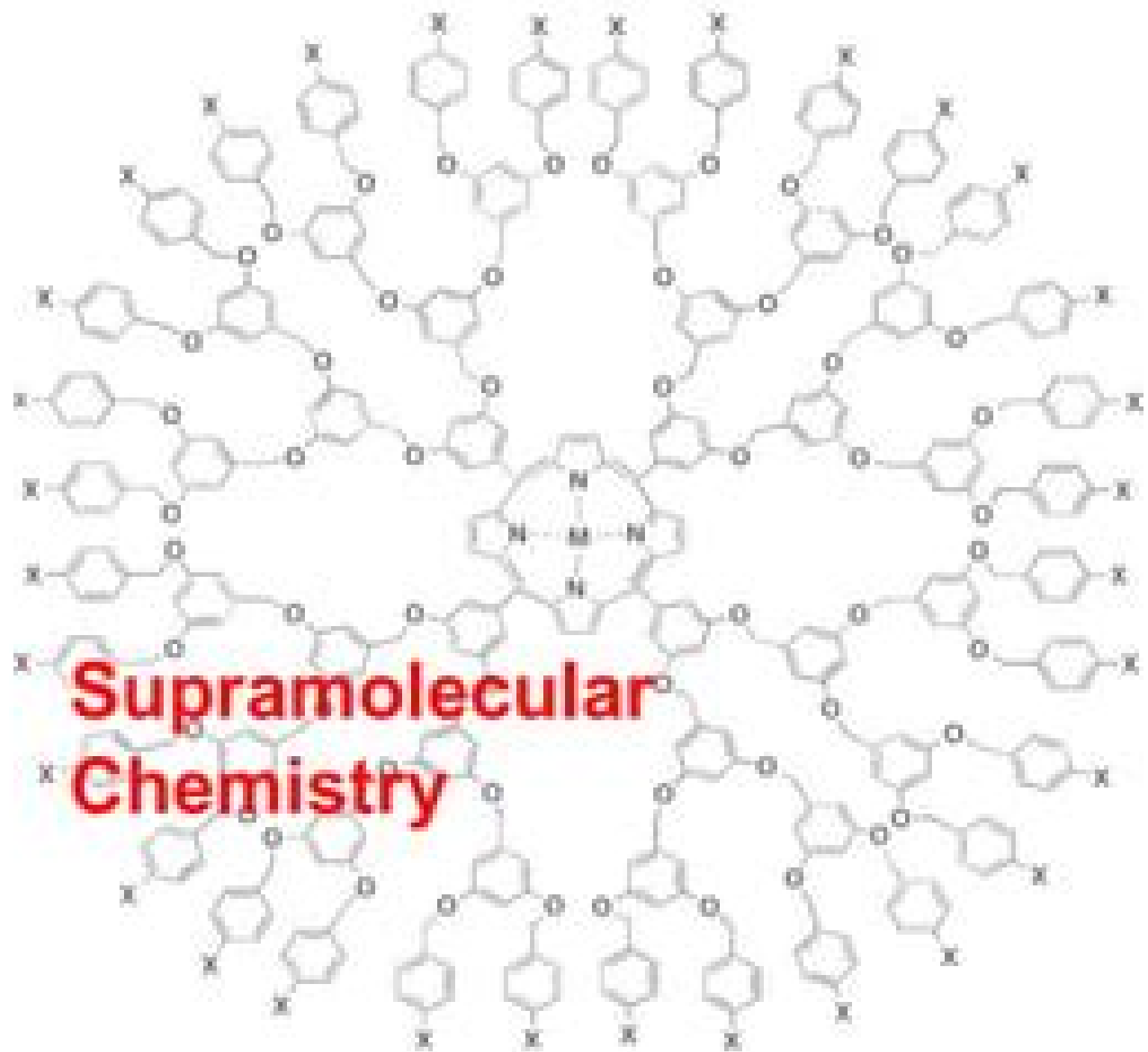




Supramolecular Chemistry Of Anions

**Kristin Bowman-James, Antonio
Bianchi, Enrique García-Espana**



Supramolecular Chemistry Of Anions:

Supramolecular Chemistry of Anions Antonio Bianchi, Kristin Bowman-James, Enrique García-España, 1997-01-31 Despite the central role anionic species have been shown to play in both mineralogical and biological processes until now there have been no comprehensive references dealing exclusively with anionic coordination chemistry Written by a group comprising pioneering researchers from the United States and Europe Supramolecular Chemistry of Anions covers all theoretical and practical aspects of anion complexation from thermodynamics and structure to catalysis and various applications The authors begin with the 1967 discovery of halide inclusion by bicyclic diammonium receptors and trace the development of anion coordination chemistry through the most recent developments in the field Topics covered in detail include Pre supramolecular anion chemistry Natural and artificial molecules that can act as anion receptors Preorganization and chemical design Structural thermodynamic electrochemical and photochemical aspects of anion coordination Computer methods for receptor design and multiple host guest relations Anion receptor catalysis and molecular recognition and transformation of nucleotides Supramolecular Chemistry of Anions is a valuable professional resource for organic and inorganic chemists analytical chemists biotechnologists pharmaceutical scientists and environmental chemists It also serves as an excellent graduate level text for students of molecular recognition catalysis and biomimetic chemistry

Anion Recognition in Supramolecular Chemistry Philip A. Gale, Wim Dehaen, 2011-05-26 Brett M Rambo Eric S Silver Christopher W Bielawski Jonathan L Sessler Covalent Polymers Containing Discrete Heterocyclic Anion Receptors Philip A Gale Chang Hee Lee Calix n pyrroles as Anion and Ion Pair Complexants Wim Dehaen Calix n phyrins Synthesis and Anion Recognition Hiromitsu Maeda Acyclic Oligopyrrolic Anion Receptors Jeffery T Davis Anion Binding and Transport by Prodigiosin and Its Analogs Hemraj Juwarker Jae min Suk Kyu Sung Jeong Indoles and Related Heterocycles Pavel Anzenbacher Jr Pyrrole Based Anion Sensors Part I Colorimetric Sensors Pavel Anzenbacher Jr Pyrrole Based Anion Sensors Part II Fluorescence Luminescence and Electrochemical Sensors Ermitas Alcalde Immaculada Dinar s Neus Mesquida Imidazolium Based Receptors Nathan L Kilah Paul D Beer Pyridine and Pyridinium Based Anion Receptors Kevin P McDonald Yuran Hua Amar H Flood 1 2 3 Triazoles and the Expanding Utility of Charge Neutral CHlllAnion Interactions

Anion Receptor Chemistry Jonathan L. Sessler, Philip A. Gale, Won-Seob Cho, 2006 Anion recognition plays a critical role in a range of biological processes and a variety of receptors and carriers can be found throughout the natural world Chemists working in the area of supramolecular chemistry have created a range of anion receptors drawing inspiration from nature as well as their own inventive processes This book traces the origins of anion recognition chemistry as a unique sub field in supramolecular chemistry while illustrating the basic approaches currently being used to effect receptor design The combination of biological overview and summary of current synthetic approaches provides a coverage that is both comprehensive and comprehensible First the authors detail the key design motifs that have been used to generate synthetic receptors and which are likely to

provide the basis for further developments They also highlight briefly some of the features that are present in naturally occurring anion recognition and transport systems and summarise the applications of anion recognition chemistry Providing as it does a detailed review for practitioners in the field and a concise introduction to the topic for newcomers Anion Receptor Chemistry reflects the current state of the art Fully referenced and illustrated in colour it is a welcome addition to the literature Anion Coordination Chemistry Kristin Bowman-James, Antonio Bianchi, Enrique García-España, 2012-03-27 Building on the pioneering work in supramolecular chemistry from the last 20 years or so this monograph addresses new and recent approaches to anion coordination chemistry Synthesis of receptors biological receptors and metallareceptors the energetics of anion binding molecular structures of anion complexes sensing devices are presented and computational studies addressed to aid with the understanding of the different driving forces responsible for anion complexation The reader is promised an actual picture of the state of the art for this exciting and constantly evolving field of supramolecular anion coordination chemistry The topics range from ion channels to selective sensors making it attractive to all researchers and PhD students with an interest in supramolecular chemistry **Supramolecular Chemistry** Paul D. Beer, Timothy A. Barendt, Jason Y. C. Lim, 2022 **Supramolecular Chemistry of Selective Anion Recognition for Anions of Environmental Relevance** Kristin Bowman-James, George S. Wilson, 2003 The original funded project 1996 had as its major goal the design and synthesis of polyammonium macrocyclic receptors for oxoanions of environmental importance particularly those found in high level waste tanks Nitrate was a major ion of focus The project evolved over the last six years to target important and timely problems of critical interest to the EMSP mission Emphasis was shifted from polyammonium receptors to lipophilic amide based receptors more amenable for both separations and sensing applications in the last renewal and significant effort was directed toward selective recognition of sulfate because of its detrimental role in the vitrification process The last three years have been focused on the basic chemical aspects of anion receptor design of functional pH independent systems with the ultimate goal of targeting the selective binding of sulfate as well as design of separations strategies for selective and efficient removal of targeted anions Key findings during these years include 1 among the first synthetic sulfate selective anion binding agents 2 simple structure based methods for modifying the intrinsic anion selectivity of a given class of anion receptors and 3 two new classes of macrocyclic ligands mixed amide quaternary amine thioamide based macrocycles and cryptands *Supramolecular Chemistry of Selective Anion Recognition for Anions of Environmental Relevance* ,2004 The last three years of this project have focused on the basic chemical aspects of anion receptor design of functional pH independent systems with the ultimate goal of targeting the selective binding of sulfate as well as design of separations strategies for selective and efficient removal of targeted anions Key findings during these years include 1 the first synthetic sulfate selective anion binding agents 2 simple structure based methods for modifying the intrinsic anion selectivity of a given class of anion receptors and 3 the first system capable of extracting sulfate anion from

acidic nitrate containing aqueous media Areas probed during the last funding period include 1 Design synthesis and physical and structural characterization of receptors 2 Examination of the technique known as ITIES Interface Between Two Immiscible Electrolyte Solutions as an analytical probe for anion analysis and 3 Investigation of anion and dual ion pair extraction using lipophilic amide receptors for anion binding **Anions in supramolecular chemistry** Salvatore Camiolo, 2002 **The Supramolecular Chemistry of Selective Anion Recognition for Anions of Environmental Relevance**, 2005 Work at carried out at ORNL since the inception of the project has served to demonstrate that the calix 4 pyrroles from the co P I s laboratory at the Univ of Texas strongly enhance the extraction of sulfate by tricaprylmethylammonium nitrate or chloride in the presence of excess nitrate and chloride Similar results were found in the case of the tetraamide macrocycles synthesized in the Bowman James laboratory Univ of Kansas Effort at the Univ of Texas thus focused on generating new pyrrole amide macrocycles that might combine the most favorable aspects of the calixpyrroles and the tetraamides This culminated in the synthesis of several new receptors which provided a matched set from whence insights into anion recognition could be inferred As can be inferred from the data summarized in Table 1 small adjustments in the structure allow for a fine tuning of the anion binding properties in favor of sulfate recognition or in the case of injudicious modifications selectivities that favor completely different classes of anionic substrates

Supramolecular Chemistry Paul D. Beer, Timothy A. Barendt, Jason Y. C. Lim, 2022 The renowned Oxford Chemistry Primers series which provides focused introductions to a range of important topics in chemistry has been refreshed and updated to suit the needs of today s students lecturers and postgraduate researchers The rigorous yet accessible treatment of each subject area is ideal for those wanting a primer in a given topic to prepare them for more advanced study or research Moreover cutting edge examples and applications throughout the texts show the relevance of the chemistry being described to current research and industry The learning features provided including questions at the end of every chapter and online multiple choice questions encourage active learning and promote understanding Furthermore frequent diagrams margin notes further reading and glossary definitions all help to enhance a student s understanding of these essential areas of chemistry Supramolecular Chemistry provides a concise and fully illustrated introduction to one of the fundamental areas of modern chemical research the concepts of which are essential to understanding interactions between molecules The primer is supported by online resources and is available for students and institutions to purchase in a variety of formats The e book offers a mobile experience and convenient access along with functionality tools navigation features and links that offer extra learning support www.oxfordtextbooks.co.uk/ebooks

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