

TOPICS IN CURRENT CHEMISTRY

255

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# Anion Sensing

 Springer

# Anion Sensing Topics In Current Chemistry

**François Diederich, Peter J. Stang, Rik  
R. Tykwinski**



## **Anion Sensing Topics In Current Chemistry:**

Anion Sensing Eric V. Anslyn, 2005-05-06 with contributions by numerous experts      **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      *Recognition of Anions* Ramon Vilar, 2008-06-12 This book presents critical reviews of the present position and future trends in modern chemical research concerned with chemical structure and bonding The book contains short and concise reports each written by the world's renowned experts      **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      **Synergy in Supramolecular Chemistry** Tatsuya Nabeshima, 2014-12-18 Cooperative and synergistic chemical events have attracted significant attention from many researchers engaged in organic chemistry inorganic chemistry biological chemistry polymer chemistry medicinal chemistry and other related materials sciences Synergistic supramolecular systems could be developed to amplify the functions and integration o      Handbook Of Porphyrin Science: With Applications To Chemistry, Physics, Materials Science, Engineering, Biology And Medicine (Volumes 6-10) Karl M Kadish, Roger Guilard, Kevin M Smith, 2010-06-29 This is the second set of Handbook of Porphyrin Science Porphyrins phthalocyanines and their numerous analogues and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new

modification yields derivatives demonstrating new chemistry physics and biology with a vast array of medicinal and technical applications As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this unique Handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors This Handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to date works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come     *Designed Molecular Space in Material Science and Catalysis* Seiji

Shirakawa,2018-09-26 This book focuses on molecular space chemistry which is recognized as an important concept for the design of novel functional materials and catalysts A wide variety of topics and ideas included in this book are based on that concept The book showcases recent representative examples of molecular space design to create functional materials and catalysts possessing unique properties This unique volume will be of great interest to chemists in a wide variety of research fields including organic inorganic biological polymer and supramolecular chemistry Readers will obtain new ideas and directions to create novel functional molecules and those ideas will lead to innovative views of science     **Supramolecular**

**Soft Matter** Takashi Nakanishi,2011-10-11 The pivotal text that bridges the gap between fundamentals and applications of soft matter in organic electronics Covering an expanding and highly coveted subject area Supramolecular Soft Matter enlists the services of leading researchers to help readers understand and manipulate the electronic properties of supramolecular soft materials for use in organic opto electronic devices such as photovoltaics and field effect transistors some of the most desired materials for energy conservation Rather than offering a compilation of current trends in supramolecular soft matter this book bridges the gap between fundamentals and applications of soft matter in organic electronics in an effort to open new directions in research for applying supramolecular assembly into organic materials while also focusing on the morphological functions originating from the materials self assembled architectures This unique approach distinguishes Supramolecular Soft Matter as a valuable resource for learning to identify concepts that hold promise for the successful development of organic polymeric electronics for use in real world applications Supramolecular Soft Matter Combines important topics to help supramolecular chemists and organic electronics researchers work together Covers an interdisciplinary field of prime importance to government supported R D research Discusses the concepts and perspectives in

a dynamic field to aid in the successful development of organic electronics Includes applications for energy conservation like photovoltaics and field effect transistors Teeming with applicable information on both molecular design and synthesis as well as the development of smart molecular assemblies for organic electronic systems Supramolecular Soft Matter provides more practical in depth coverage of this rapidly evolving technology than any other book in its field

**Nanoscience with Liquid Crystals** Quan Li, 2014-04-17 This book focuses on the exciting topic of nanoscience with liquid crystals from self organized nanostructures to applications The elegant self organized liquid crystalline nanostructures the synergetic characteristics of liquid crystals and nanoparticles liquid crystalline nanomaterials synthesis of nanomaterials using liquid crystals as templates nanoconfinement and nanoparticles of liquid crystals are covered and discussed and the prospect of fabricating functional materials is highlighted Contributions collecting the scattered literature of the field from leading and active players are compiled to make the book a reference book Readers will find the book useful and of benefit both as summaries for works in this field and as tutorials and explanations of concepts for those just entering the field Additionally the book helps to stimulate future developments

Metal Ligand Chromophores for Bioassays Kenneth Kam-Wing Lo, Peter Kam-Keung Leung, 2022-11-03 The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field Chapters Metal Peptide Conjugates in Cell and Tissue Imaging and Biosensing Luminescent Metal Complexes as Emerging Tools for Lipid Imaging and Determination and Imaging of Small Biomolecules and Ions Using Ruthenium II Complex Based Chemosensors are available open access under a CC BY 4.0 License via [link.springer.com](https://link.springer.com)

Modern Supramolecular Chemistry François Diederich, Peter J. Stang, Rik R. Tykwinski, 2008-03-17 Written by internationally acclaimed experts this handy volume covers all major classes of supramolecular compounds Chapters include cyclophanes resorcinarene and calixarene synthesis supramolecular metallomacrocycles and macrocycle synthesis rotaxane and catenane synthesis cucurbiturils and porphyrins as well as macrocyclic drugs Each chapter contains experimental procedures allowing fast access to this type of synthetic chemistry

**New Techniques in Solid-State NMR** Jacek Klinowski, 2004-12-10 With contributions by numerous experts

**Chromic Phenomena 3rd Edition** Peter Bamfield, Michael Hutchings, 2018-08-24 Chromic or colour related phenomena are produced in response to a chemical or physical stimulus This new edition will update the information on all those areas where chemicals or materials interact with light to produce colour a colour change or luminescence especially in the imaging analysis lighting and display areas The book has been restructured to show greater emphasis on applications where coloured compounds are used to transfer energy or manipulate light in some way therefore reducing the details on classical dyes and pigments In the past eight years since the previous edition there has been a remarkable increase in the number of papers and reviews being produced reflecting the growth of interest in this area This ongoing research interest is matched by a large number of new technological applications gaining commercial value covering e g biomedical areas energy data storage physical colour bio inspired materials and photonics This book appeals to industrial chemists professionals postgraduates and as high level recommended reading for colour technology courses     Chromic Phenomena Peter Bamfield, Michael G. Hutchings, 2010 Providing an entry point both for new researchers and for established ones this book develops and investigates new applications for colour chemistry     Functional Molecular Nanostructures Matthias Ballauff, A. Dieter Schlüter, 2005-02-14 With contributions by numerous experts     **New Aspects in Phosphorus Chemistry V** Jean-Pierre Majoral, 2005 Phosphorus chemistry is a diverse field and this volume focuses on new developments of old themes with different approaches and ideas state of the art for two topics of general interest and the emerging fields of research This volume only describes in part the huge number of original papers on phosphorus related topics     **Contrast Agents III** Roger Alberto, 2005-02-10 with contributions by numerous experts     **Chalcogenocarboxylic Acid Derivatives S.-I.** Fujiwara, 2005-04-07 Chalcogenocarboxylic acid derivatives are a large class of compounds including more than one chalcogenocarboxyl group in which one or two oxygen atoms of the carboxyl group are replaced with sulfur selenium or tellurium atoms The chemistry of metal chalcogenocarboxylates has not been explored extensively as that of carboxylates and dithiocarbamates This volume presents a comprehensive overview of the syntheses and their limitations structures and reactions of chalcogenocarboxylic acid derivatives by emphasizing the developments in organic and inorganic chalcogen chemistry over the last 5 to 20 years     **Natural Product Synthesis I** Johann H. Mulzer, 2005-01-12 B Basler S Brandes A Spiegel and T Bach Total Synthesis of Kalsoene and Preussin R Bandichhor B Nosse and O Reiser Paraconic Acids the Natural Products from Lichen Symbiont M Hiersemann and H Helmboldt Recent Progress in the Total Synthesis of Dolabellane and Dolastane Diterpenes L Wessjohann and E Ruijter Strategies for Total and Diversity Oriented Synthesis of Natural Product Like Macrolides M Sefkow Enantioselective Synthesis of C 8 Hydroxylated Lignans Early Approaches and Recent Advances     Natural Product Synthesis II U. Beifuss, 2005-02-11 T Heckrodt and J Mulzer Marine Natural Products from Pseudopterogorgia Elisabethae Structures Biosynthesis Pharmacology and Total Synthesis M Kalesse Recent Advances in Vinylogous Aldol Reactions and their Applications in Natural Product Synthesis U Beifuss and M Tietze Methanophenazine

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