

# A Practical Guide to Supramolecular Chemistry

Peter J. Cragg

 WILEY

# A Practical Guide To Supramolecular Chemistry

**J. L. Atwood, Jonathan W. Steed**



## **A Practical Guide To Supramolecular Chemistry:**

*A Practical Guide to Supramolecular Chemistry* Peter J. Cragg, 2005-11-04 A Practical Guide to Supramolecular Chemistry is an introductory manual of practical experiments for chemists with little or no prior experience of supramolecular chemistry Syntheses are clearly presented to facilitate the preparation of acyclic and macrocyclic compounds frequently encountered in supramolecular chemistry using straightforward experimental procedures Many of the compounds can be used to illustrate classic supramolecular phenomena for which clear directions are given or may be developed further as part of the reader's own research The book also describes techniques commonly used in the analysis of supramolecular behaviour including computational methods with many detailed examples An invaluable reference for students and researchers in the field embarking on supramolecular chemistry projects and looking for a tried and tested route into the chemistry of key compounds An introductory guide to practical syntheses focusing on supramolecular chemistry Fully referenced introductions explain the historical and contemporary importance of each compound Supplementary website including 3D molecular structures FAQ's about syntheses and suggestions for further experiments

*Applications of Supramolecular Chemistry* Hans-Jorg Schneider, 2012-03-28 Applications of Supramolecular Chemistry introduces the use of non covalent interactions and molecular recognition for many fields Applications include the analysis of technically medically and environmentally important chemical compounds their separation purification and removal and the design of new materials including supramolecular elect

**Modern Supramolecular Chemistry** François Diederich, Peter J. Stang, Rik R. Tykwinski, 2008-06-25 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

**Theoretical and Practical Guide to Organic Physical Chemistry** Gennadiĭ Efremovich Zaikov, G. V. Kozlov, R. G. Makitra, 2006 Theoretical Practical Guide to Organic Physical Chemistry

**Analytical Methods in Supramolecular Chemistry** Christoph A. Schalley, 2007-02-27 An overview of the techniques used to examine supramolecular aggregates from a methodological point of view Edited by a rising star in the community and an experienced author this is a definitive survey of useful modern analytical methods for understanding supramolecular chemistry from NMR to single molecule spectroscopy from electron microscopy to extraction methods A definitive study of this field touching many interdisciplinary areas such as molecular devices biology bioorganic chemistry material science and nanotechnology

**Encyclopedia of Supramolecular Chemistry** J. L. Atwood, Jonathan W. Steed, 2004 Covers the fundamentals of supramolecular chemistry supramolecular advancements and methods in the areas of chemistry biochemistry biology environmental and materials science and engineering physics computer science and applied mathematics

**Women in Supramolecular Chemistry**

Jennifer Leigh, Jennifer Hiscock, Anna McConnell, Cally Haynes, Claudia Caltagirone, Marion Kieffer, Emily Draper, Anna Slater, Larissa K.S. von Krbek, Kristin Hutchins, Davita Watkins, Nathalie Busschaert, 2022-05-31 EPDF and EPUB available Open Access under CC BY NC ND licence Women in Science Technology Engineering and Maths STEM disciplines face a gender gap that has been exacerbated during COVID 19 Drawing on research carried out by the Women in Supramolecular Chemistry WISC network this essential book sets out the extent to which women working in STEM face inequality and discrimination The authors use approaches more commonly associated with social sciences such as creative and reflective research methods to shed light on the human experiences lying behind scientific research They share fictional vignettes drawn from research findings to illustrate the challenges faced by women working in science today Additionally they show how this approach helps make sense of difficult personal experiences and to create a culture of change Offering a path forward to inclusivity and diversity this book is crucial reading for anyone working in STEM **Supramolecular**

**Photochemistry** V. Ramamurthy, Yoshihisa Inoue, 2011-07-07 This is the most updated comprehensive collection of monographs on all aspects of photochemistry and photophysics related to natural and synthetic inorganic organic and biological supramolecular systems Supramolecular Photochemistry Controlling Photochemical Processes addresses reactions in crystals organized assemblies monolayers zeolites clays silica micelles polymers dendrimers organic hosts supramolecular structures organic glass proteins and DNA and applications of photosystems in confined media This landmark publication describes the past present and future of this growing interdisciplinary area **Supramolecular Catalysis** Piet W. N. M. van

Leeuwen, 2008-06-25 In the past few years supramolecular chemistry has led to new approaches in homogeneous catalysis While host guest chemistry had already found applications in catalysis as a result of the pioneering work carried out by Professor Ronald Breslow and Nobel prizewinner Professor Jean Marie Lehn that began some 40 years ago the construction of catalysts by supramolecular forces has only recently become a powerful tool This development paves the way for large numbers of new potential catalysts that can be varied in an expedient way by changing the constituting building blocks Written by some of the leading contributors in the field this book is intended for both industrial and academic chemists with an interest in this area of catalysis With its discussion of topics from ligand libraries to chirality directed self assembly this is a must have for chemists with organic catalytic and polymer backgrounds as well as those employing such compounds in industrial processes **Ionic Interactions in Natural and Synthetic Macromolecules** Alberto Ciferri, Angelo

Perico, 2012-01-04 This book is a comprehensive study of the subject of ionic interactions in macromolecules The first parts of the book review and analyze the conventional treatments of fixed charges e g in polyelectrolytes and polyampholytes including screening and condensation by mobile ions The interaction of ions with less polar sites on the macromolecule e g amide bonds and the origin of the lyotropic effects focusing on binding versus condensation will also be extensively addressed The book also explores complex micellar organizations involving charged macromolecules e g DNA and low

molecular weight ampholytes and strong protein associations The resulting structures are relevant to a variety of functional biological systems and synthetic analogs The contribution of electrostatic and hydrophobic interaction to the stability of proteins and other supramolecular structures will also be analyzed There are chapters on applications such as deionization and cosmetic formulation This 21 chapter book is divided into three sections Fundamentals Mixed Interactions Functions and Applications

Organic Nanochemistry Yuming Zhao, 2024-01-31 ORGANIC NANO CHEMISTRY How to guide for entry level practitioners to quickly learn the cutting edge research concepts and methodologies of modern organic nanochemistry Organic Nanochemistry describes the fundamentals of organic nanochemistry research encompassing modern synthetic reactions supramolecular strategies nanostructure and property characterization techniques and state of the art data analysis and processing methods along with synthetic chemistry as applied to organic nanomaterials and molecular devices Accompanying each of these principles are case studies from basic design to detailed experimental implementation to help the reader fully comprehend the concepts and methods involved Various theories suitable for nanoscale simulations including quantum mechanics semi empirical quantum mechanics and molecular dynamics theories are discussed at an introductory level Computational examples are provided allowing interested readers to grasp essential modelling techniques for better understanding of organic nanochemistry The content is paired with online supplementary material that includes instructional materials and guides to using common scientific software for computational modelling and simulations Written by a highly qualified professor Organic Nanochemistry includes discussion on Key concepts and theories of organic chemistry which are essential to understand the fundamental properties of organic molecular and supramolecular systems Useful synthetic methodologies for the synthesis and functionalization of organic nanomaterials and the chemistry and application of exotic carbon nanomaterials Supramolecular aspects in organic nanochemistry especially the well developed disciplines of host guest chemistry and organic self assembly chemistry Construction and testing of molecular devices and molecular machines and state of the art computational modelling methods for properties of nanoscale organic systems Guiding the reader on a journey from familiar chemical concepts and principles to cutting edge research of nano science and technology Organic Nanochemistry serves as an excellent textbook learning resource for advanced and graduate students as well as a self study guide or how to reference for practicing chemists

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Kirk-Othmer, 2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field

**Macrocycles** Frank Davis, Séamus Higson, 2011-02-23 Macrocyclic molecules contain rings made up of seven or more atoms They are interesting because they provide building

blocks for synthesizing precise two or three dimensional structures an important goal in nanotechnology For example they can be used to develop nanosized reaction vessels cages switches and shuttles and have potential as components in molecular computers They also have applications as catalysts and sensors

**Macrocycles Construction Chemistry and Nanotechnology Applications** is an essential introduction this important class of molecules and describes how to synthesise them their chemistry how they can be used as nanotechnology building blocks and their applications A wide range of structures synthesised over the past few decades are covered from the simpler cyclophanes and multi ring aromatic structures to vases bowls cages and more complex multi ring systems and 3D architectures such as pumpkins interlocking chains and knots Topics covered include principles of macrocycle synthesis simple ring compounds multi ring aromatic structures porphyrins and phthalocanines cyclophanes crown ethers cryptands and spherands calixarenes resorcinarenes cavitands carcerands and heterocalixarenes cyclodextrins cucurbiturils cyclotrimeratylenes rotaxanes catenanes complex 3D architectures including trefoils and knots

**Macrocycles Construction Chemistry and Nanotechnology Applications** distills the essence of this important topic for undergraduate and postgraduate students and for researchers in other fields interested in getting a general insight into this increasingly important class of molecules

*Chirogenesis In Chemical Science* Victor Borovkov, Riina Aav, 2022-12-28

**Chirogenesis in Chemical Science** is an exciting new book that takes readers inside the world of chirality and chirogenesis guided by Victor Borovkov and Riina Aav both internationally renowned experts on chirality Chirality is a fundamental property of the universe and has significance in different organic inorganic materials living organisms and human beings The basic principle of chirality is existence of an object in two mirror image forms which are not superimposable This phenomenon is widely seen in various fields of knowledge including mathematics astronomy physics chemistry biology and ranging in scale from galaxies to nuclear particles In chemical science chirality is generally associated with a single molecule or group of molecules which symmetry properties belonging to the  $C_n$  or  $D_n$  point groups with the simplest example of  $sp^3$  carbon atom bonded to four different substituents The dynamic processes of chirality generation modulation transfer amplification etc are termed chirogenesis This is a fast growing and interdisciplinary field of research which is widely seen in many natural systems such as DNA double helix the secondary alpha helix structure of proteins lipid membranes saccharides heme proteins and other biological molecular objects and various artificial systems It is of prime importance not only for fundamental science but also for a number of practical applications in such areas as pharmacology and agrochemistry perfumery and food industry materials and polymer sciences enantioselective catalysis and nonlinear optics nanoscience and nanotechnology molecular devices and chemical sensors and others Therefore understanding the mechanisms and various influencing factors is of particular significance for smart control and further effective application of chirogenesis in chemistry

**Practical Guide to Studying Dendrimers** Dzmitry Shcharbin, 2010-10-28

Dendrimers belong to the class of nanoparticles and are promising tools in nanomedicine This book provides a compact up to date description of

methods useful in studying biological properties of dendrimers It focuses on biological properties of dendrimers and creates a practical guide that reviews the methods used to study these aspects of dendrimers There is a need to describe a set of methods applied to characterise different types of dendrimers Such standardisation will hopefully help to compare different families of dendrimers in the future This book presents a methodological approach and provides useful tips how to study dendrimers

**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

**Supramolecular Chemistry in Corrosion and Biofouling Protection** Viswanathan S. Saji, 2021-12-23 Supramolecular chemistry the chemistry beyond the molecule is a fascinating realm of modern science The design of novel supramolecular structures surfaces and techniques are at the forefront of research in different application areas including corrosion and biofouling protection A team of international experts provide a comprehensive view of the applications and potential of supramolecular chemistry in corrosion and biofouling prevention Chapter topics include types and fundamentals of supramolecules supramolecular polymers and gels host guest inclusion compounds organic inorganic hybrid materials metallo assemblies cyclodextrins crown ethers mesoporous silica and supramolecular structures of graphene and other advances Additional Features include Focuses on different aspects of supramolecular chemistry in corrosion and biofouling prevention Comprehensively covers supramolecular interactions that can provide better corrosion and biofouling protection Provides the latest developments in self healing coatings Explores recent research advancements in the suggested area Includes case studies specific to industries The different supramolecular approaches being investigated to control corrosion and biofouling are gathered in one well organized reference to serve senior undergraduate and graduate students research students engineers and researchers in the fields of corrosion science engineering biofouling and protective coatings

Smart Structures Vinod K. Wadhawan, 2007-10-18 A structure is an assembly that serves an engineering function A smart structure is one that serves this function smartly i e by responding adaptively in a pre designed useful and efficient manner to changing environmental conditions Adaptive behaviour of one or more materials constituting a smart structure requires nonlinear response This book describes the three main types of nonlinear response materials ferroic materials soft materials and nanostructured materials Information processing by biological and artificial smart structures is also discussed A smart structure typically has sensors actuators and a control system Progress in all these aspects of smart structures has leant heavily on mimicking Nature and the all important notion in this context has been that of evolution Artificial Darwinian and Lamarckian evolution holds the key to the development of truly smart structures Modestly intelligent robots are already on the horizon Projections about the low cost availability of adequate computing power and memory size indicate that the future really belongs to smart structures

This book covers in a compact format the entire gamut of concepts relevant to smart structures It should be of interest to a wide range of students and professionals in science and engineering

**Supramolecular Chemistry in Water** Stefan Kubik, 2019-09-03 Provides deep insight into the concepts and recent developments in the area of supramolecular chemistry in water Written by experts in their respective field this comprehensive reference covers various aspects of supramolecular chemistry in water from fundamental aspects to applications It provides readers with a basic introduction to the current understanding of the properties of water and how they influence molecular recognition and examines the different receptor types available in water and the types of substrates that can be bound It also looks at areas to where they can be applied such as materials optical sensing medicinal imaging and catalysis Supramolecular Chemistry in Water offers five major sections that address important topics like water properties molecular recognition association and aggregation phenomena optical detection and imaging and supramolecular catalysis It covers chemistry and physical chemistry of water water mediated molecular recognition peptide and protein receptors nucleotide receptors carbohydrate receptors and ion receptors The book also teaches readers all about coordination compounds self assembled polymers and gels foldamers vesicles and micelles and surface modified nanoparticles In addition it provides in depth information on indicators and optical probes as well as probes for medical imaging Covers in a timely manner an emerging area in chemistry that is growing more important every day Addresses topics such as molecular recognition aggregation catalysis and more Offers comprehensive coverage of everything from fundamental aspects of supramolecular chemistry in water to its applications Edited by one of the leading international scientists in the field Supramolecular Chemistry in Water is a one stop resource for all polymer chemists catalytic chemists biochemists water chemists and physical chemists involved in this growing area of research

**Adsorption and Aggregation of Surfactants in Solution** K.L. Mittal, Dinesh O. Shah, 2002-11-07 Offering the latest research and developments in the understanding of surfactant behavior in solutions this reference investigates the role and dynamics of surfactants and their solution properties in the formulation of paints printing inks paper coatings pharmaceuticals personal care products cosmetics liquid detergents and lubricants Exploring the science behind techniques from oil recovery to drug delivery the book covers surfactant stabilized particles solid particles at liquid interfaces nanocapsules aggregation behavior of surfactants micellar catalysis vesicles and liposomes the clouding phenomena viscoelasticity of micellar solutions and more



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