

# Supramolecular Chemistry

Jonathan W. Steed  
and  
Jerry L. Atwood

Second Edition



WILEY

## Supramolecular Chemistry II

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Raston**

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General Principles of Supramolecular Chemistry and Molecular Recognition George W. Gokel, Jerry L. Atwood, Leonard J. Barbour, Kari Rissanen, Janarthanan Jayawickramarajah, Andrew J. Wilson, Scott Dalgarno, Leonard R. MacGillivray, Timothy E. Glass, Colin Raston, 2017

**Heterocyclic Supramolecules II** Kiyoshi Matsumoto, Naoto Hayashi, 2009-10-03 Explanation of the structure property relationship of a given molecule is generally simple because the characteristics of the atomic groups and chemical bonds and the effects emerging from their interaction have long been known both from theoretical studies and numerous experimental results. In contrast it is often difficult to analyze, estimate and account for the structure properties relationship in sup molecules. The characteristics of supramolecules are governed both by the nature of the constituent molecules and by their configuration while the characteristics of the constituent molecules are usually evident as mentioned above their configurations are difficult to control, predict and accurately estimate because of insufficient knowledge regarding the intermolecular forces. Moreover since most of the intermolecular forces constructing supramolecules are weak the supramolecular structure may vary depending on various factors such as modification of the molecular structure, auxiliaries and experimental conditions. Thus in order to obtain supramolecules with the desired structures and properties, theoretical investigations on the intermolecular forces and accumulation of experimental studies on the relationship between the supramolecular structure and properties are both important.

**Encyclopedia of Supramolecular Chemistry** J. L. Atwood, Jonathan W. Steed, 2004 Crystallizing a rapidly expanding interdisciplinary field and one of the most popular and newsworthy areas in contemporary chemistry this two volume encyclopaedia offers authoritative information with user friendly and high quality articles

**Dyes and Photoactive Molecules in Microporous Systems** Virginia Martínez-Martínez, Fernando López Arbeloa, 2020-12-15 This book provides an overview of the design, synthesis and characterization of different photoactive hybrid organic inorganic materials based on the combination of mainly organic molecules and inorganic nanostructures, tackling their uses in different scientific fields from photonics to biomedicine. There are many examples extensively describing how the confinement of organic compounds i.e. chromophores, photochromic molecules or photoreactants or other photoactive compounds i.e. metal clusters into several microporous systems can

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**Pharmaceutical Applications of Supramolecules** Nidhi Goel, Naresh Kumar, 2023-01-16 This book outlines the use of supramolecules as different pharmaceutical drugs Supramolecular chemistry in pharmaceutical sciences is quite a young and rapidly developing field Supramolecular assemblies might offer an alternative for existing pharmaceutical formulations as they facilitate the improvement of physicochemical and pharmacological properties i.e. higher bioavailability better biocompatibility and drug targeting fewer multidrug resistances This book offers an overview of the recent advances in supramolecular structures and discusses the future aspects and challenges related to the development of these molecules providing also a perspective on how to overcome these issues Divided into 13 chapters contributed by experts in their field the book provides a deeper understanding of intermolecular forces playing pivotal roles in mediating the interactions between chemical molecules and biological systems by focusing on different applications of supramolecular compounds In this book readers will find valuable insights into the preparation of supramolecules and the latest research and development trends of supramolecules as anticancer drugs including liquid crystalline supramolecular assemblies and as antimicrobial antiviral anti-inflammatory and cardiovascular drugs Particular attention is given to the application of supramolecules in the fields of biomedicine bioimaging and vaccine development Given its breadth this book will appeal to a wide readership from researchers and students interested in these fields to professionals in the pharma industry

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Atwood,2013-05-21 Supramolecular chemistry is chemistry beyond the molecule the chemistry of molecular assemblies and intermolecular bonds It is one of today s fastest growing disciplines crossing a range of subjects from biological chemistry to materials science and from synthesis to spectroscopy Supramolecular Chemistry is an up to date integrated textbook that tells the newcomer to the field everything they need to know to get started Assuming little in the way of prior knowledge the book covers the concepts behind the subject its breadth applications and the latest contemporary thinking in the area It also includes coverage of the more important experimental and instrumental techniques needed by supramolecular chemists The book has been thoroughly updated for this second edition In addition to the strengths of the very popular first edition this comprehensive new version expands coverage into a broad range of emerging areas Clear explanations of both fundamental and nascent concepts are supplemented by up to date coverage of exciting emerging trends in the literature Numerous examples and problems are included throughout the book A system of key references allows rapid access to the secondary literature and of course comprehensive primary literature citations are provided A selection of the topics covered is listed below Cation anion ion pair and molecular host guest chemistry Crystal engineering Topological entanglement Clathrates Self assembly Molecular devices Dendrimers Supramolecular polymers Microfabrication Nanoparticles Chemical emergence Metal organic frameworks Gels Ionic liquids Supramolecular catalysis Molecular electronics Polymorphism Gas sorption Anion pinteractions Nanochemistry Supramolecular Chemistry is a must for both students new to the field and for experienced researchers wanting to explore the origins and wider context of their work Review At just under 1000 pages the second edition of Steed and Atwood s Supramolecular Chemistry is the most comprehensive overview of the area available in textbook form highly recommended Chemistry World August 2009

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