

A Practical Guide to Supramolecular Chemistry

Peter J. Cragg

 WILEY

A Practical Guide To Supramolecular Chemistry

Rosina Ehmman



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 **Advanced Structural**

Inorganic Chemistry Wai-Kee Li, Gong-Du Zhou, Thomas C. W. Mak, 2008-03-27 A revised and updated English edition of a textbook based on teaching at the final year undergraduate and graduate level It presents structure and bonding generalizations of structural trends crystallographic data as well as highlights from the recent literature 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 NANOCHEMISTRY 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

Introduction to Supramolecular Chemistry Helena

Dodziuk,2007-05-08 A new rapidly progressing field on the crossroads among chemistry biochemistry physics and technology supramolecular chemistry has just emerged You have to be involved to know what s going on in this domain and to take part in the development This book will show you in a condensed form exciting phenomena unthinkable within the realm of classical organic chemistry for example alkali metal anions or cyclobutadiene stable for month at room temperature that not only provide the basis for revolutionizing numerous branches of industry but also improve our understanding of the functioning of living organisms and of the origin of life Designing supramolecular systems with desired properties will among others make chemical industry cleaner and more safe electronics smaller by developing devices composed of single molecule or molecular aggregate It will also entirely change the way we use energy resources In addition it will also transform the pharmaceutical industry and medicine by developing new ways of drugs administration and new composite biocompatible materials which will serve as implants of new generation changing dentistry surgery and other branches of medicine You

cannot afford to stand apart With its brief but comprehensive and vivid presentation including the latest development Introduction to Supramolecular Chemistry is the best method to get into this domain This book provides an excellent summary of information scattered across the literature The brief but comprehensive coverage of the whole field including practically all important group of compounds forming aggregates in particular crown ethers cavitands fullerenes cyclodextrins and their complexes provisioning full references for the discussed subjects make this book of value not only for Ph D students and non specialists in this domain but also for those working in the field The book has been found to be a particularly useful resource for students and more generally for those wanting to get the up to date concise account of this exciting field

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 learnt 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

Kirk-Othmer Encyclopedia of Chemical Technology, Volume 24 Kirk-Othmer, 2007 The fifth edition of the Kirk Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions which have proven to be a mainstay for chemists biochemists and engineers at academic industrial and government institutions since publication of the first edition in 1949 The new edition includes necessary adjustments and modernization of the content to reflect changes and developments in chemical technology

The British National Bibliography Arthur James Wells, 2009

Supramolecular Chemistry and Self-assembly Jack Halpern, 2002

Canadian Journal of Chemistry , 2005-06

The Software Encyclopedia, 1986

Choice , 2007

American Book Publishing Record , 2005

Journal American Chemical Society, 2004

The Edition XII Guide Edition XII, 1995 Over 500 profiles of Postgraduate Science Health Computer Sciences and Engineering courses A comprehensive reference section with details of over 10 000 Postgraduate Science and Engineering courses There is also practical editorial giving useful and essential advice and information Back cover

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