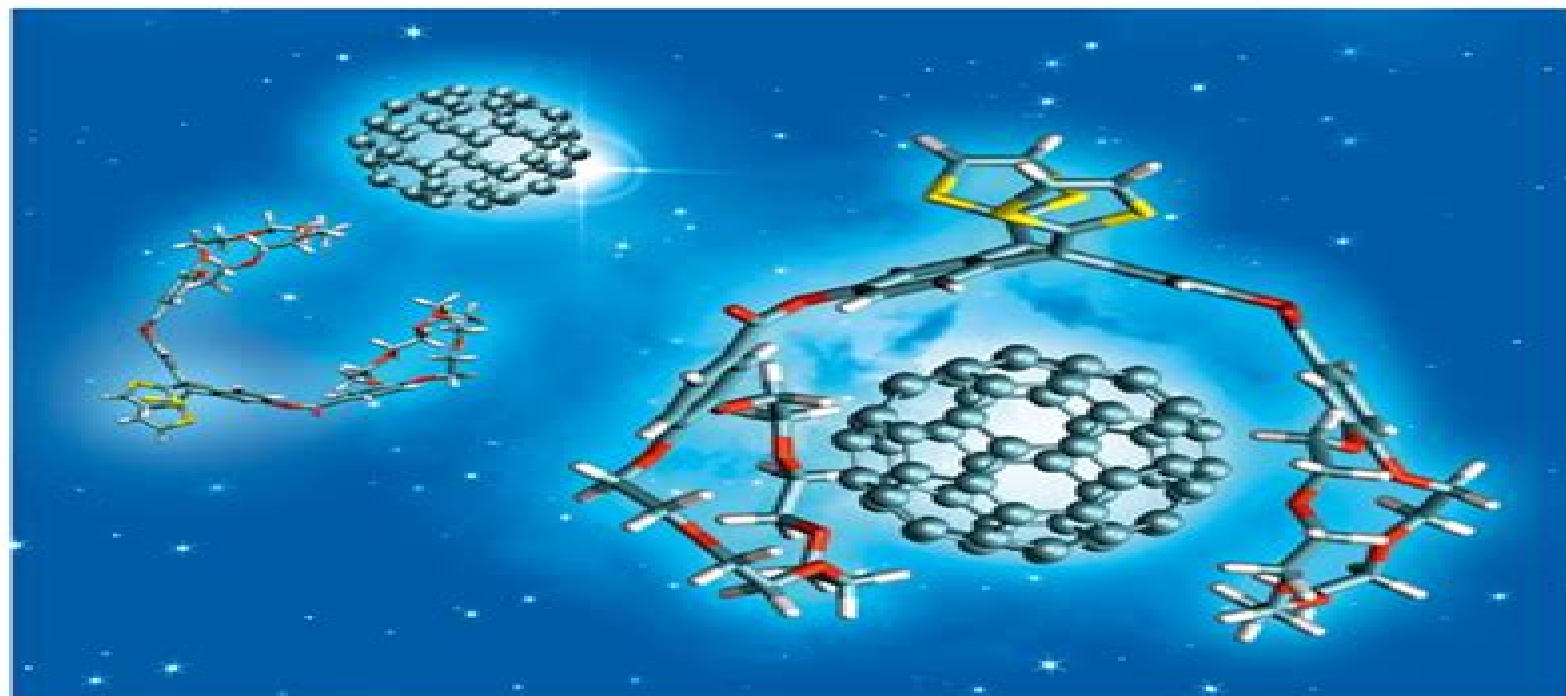


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# Supramolecular Chemistry of Fullerenes and Carbon Nanotubes



# Supramolecular Chemistry Of Fullerenes And Carbon Nanotubes

**Takeshi Akasaka, Fred Wudl, Shigeru Nagase**



## **Supramolecular Chemistry Of Fullerenes And Carbon Nanotubes:**

Supramolecular Chemistry of Fullerenes and Carbon Nanotubes Nazario Martin, Jean-Francois Nierengarten, 2012-05-21 Collating our current knowledge and the latest developments for enabling breakthrough discoveries this book focuses on the synthesis and applications of materials that are based on supramolecular assemblies of carbon nanostructures with an emphasis on fullerenes and nanotubes In so doing it provides readers with an overview of the different types of supramolecular architectures accentuating the outstanding geometrical electronic and photophysical properties of the building blocks and the resulting structures It makes use of basic concepts and real life applications from simple syntheses to complex architectures from instructive examples to working experimental procedures and from photophysics to solar cells A large part of each chapter is devoted to the methods and possibilities of controlling and tuning these molecular assemblies in order to obtain working devices Fascinating reading for materials scientists organic chemists molecular physicists and those in the semiconductor industry

**Fullerenes and Other Carbon-Rich Nanostructures** Jean-François Nierengarten, 2014-05-16 Yanfei Shen and Takashi Nakanishi Exotic Self Organized Fullerene Materials Based on Uncommon Hydrophobic Amphiphilic Approach Yuming Zhao and Guang Chen C60 Fullerene Amphiphiles as Supramolecular Building Blocks for Organized and Well Defined Nano scale Objects Anna Troeger Vito Sgobba and Dirk M Guldi Multilayer Assembly for Solar Energy Conversion Delphine Felder Flesch Self or Induced Organization of 60 Fullerene Hexakisadducts Andr s de la Escosura Olga Trukhina and Tom s Torres Dual Role of Phthalocyanines in Carbon Nano structure Based Organic Photovoltaics Riccardo Marega Davide Giust and Davide Bonifazi Supramolecular Chemistry of Carbon Nano tubes at Interfaces Toward Applications Stephanie Frankenberger Johanna A Januszewski and Rik R Tykwinski Oligomers from sp Hybridized Carbon Cumulenes and Polynes

**Fullerenes, Nanotubes, and Carbon Nanostructures 2** Francis D'Souza, 2007-11 The papers included in this issue of ECS Transactions were originally presented in the symposia Electron Transfer and Applications of Fullerene and Nanostructured Materials in Honor of David Schuster Molecular and Supramolecular Chemistry of Fullerenes and Carbon Nanotubes Carbon Nanotubes and Nanostructures Fundamental Properties and Processes Carbon Nanotubes and Nanostructures Applications and Devices Solid State Physics Porphyrins and Supramolecular Assemblies and Metallic and Semiconductor Nanoparticles held during the 211th meeting of The Electrochemical Society in Chicago IL

Fullerenes, Nanotubes, and Carbon Nanostructures Dirk M. Guldi (Scientifique), Electrochemical Society (United States). Fullerenes, Nanotubes, and Carbon Nanostructures Division, Electrochemical Society (United States). Meeting, 2010

*Fullerenes, Nanotubes, and Carbon Nanostructures - 213th ECS Meeting* F. D'Souza, 2008-10 The papers included in this issue of ECS Transactions were originally presented in the symposia Electron Transfer and Applications of Fullerene and Nanostructured Materials Molecular and Supramolecular Chemistry of Fullerenes and Carbon Nanotubes Carbon Nanotubes and Nanostructures Fundamental Properties and

Processes Carbon Nanotubes and Nanostructures Applications and Devices Energetics and Structure and Solid State Physics Carbon Nanotubes and Nanostructures Medicine and Biology and Porphyrins and Supramolecular Assemblies held during the 213th meeting of The Electrochemical Society in Phoenix Arizona from May 18 to 23 2008      **Heterocyclic**

**Supramolecules I** Kiyoshi Matsumoto, 2008-07-11 Heterocyclic chemistry is the biggest branch of chemistry covering two thirds of the chemical literature This series covers this hot topic of frontier research summarized by reputed scientists in the field      *Fullerenes, Nanotubes, and Carbon Nanostructures - 217th ECS Meeting* D. M. Guldi, 2010-10 The papers included in this issue of ECS Transactions were originally presented in the symposia Molecular and Supramolecular Chemistry of Fullerenes and Carbon Nanotubes Carbon Nanotubes and Nanostructures Fundamental Properties and Processes Carbon Nanotubes and Nanostructures Applications and Devices and Nanostructures for Energy Conversion held during the 217th meeting of The Electrochemical Society in Vancouver Canada from April 25 to 30 2010      **Chemistry of Nanocarbons**

Takeshi Akasaka, Fred Wudl, Shigeru Nagase, 2010-09-29 During the last decade fullerenes and carbon nanotubes have attracted special interest as new nanocarbons with novel properties Because of their hollow caged structure they can be used as containers for atoms and molecules and nanotubes can be used as miniature test tubes Chemistry of Nanocarbons presents the most up to date research on chemical aspects of nanometer sized forms of carbon with emphasis on fullerenes nanotubes and nanohorns All modern chemical aspects are mentioned including noncovalent interactions supramolecular assembly dendrimers nanocomposites chirality nanodevices host guest interactions endohedral fullerenes magnetic resonance imaging nanodiamond particles and graphene The book covers experimental and theoretical aspects of nanocarbons as well as their uses and potential applications ranging from molecular electronics to biology and medicine

Applications of Supramolecular Chemistry Hans-Jörg 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      Handbook of Carbon Nano Materials Francis D'Souza, Karl M. Kadish, 2011 This book covers the contributions of significant discoveries of fundamentals and applications of fullerene and all carbon nanomaterials from leading scientists It contains over two dozen chapters reviewing recent progress in fullerene chemistry and physics endohedral fullerenes carbon nanotubes and graphenes supramolecular chemistry of fullerenes and all carbon materials materials chemistry aspects molecular electronics and photovoltaic applications and electrochemical energy storage applications Researchers and industry professionals will undoubtedly appreciate the extensive coverage of this vast and increasingly important field compiled in a single volume      **Core Concepts in Supramolecular Chemistry and Nanochemistry** Jonathan W. Steed, David R. Turner, Karl J. Wallace, 2007-06-15 Core Concepts in Supramolecular Chemistry and Nanochemistry is a concise introduction to this fast developing subject The book offers a modern up to date approach

and carefully explains the basics and essential theory behind the subject     Supramolecular Chemistry Jonathan W. Steed, Jerry L. Atwood, 2000-10-11 This book provides a thorough introduction to the field covering both the theory behind the subject how the theory is applied and also includes coverage of the more important techniques needed by supramolecular chemists

**Medicinal Chemistry and Pharmacological Potential of Fullerenes and Carbon Nanotubes** Franco Cataldo, Tatiana da Ros, 2008-09-08 Fullerenes and nanotubes are two classes of carbon structures or allotropes which were discovered about 17 years ago Since that time many chemical derivatives have been synthesized using fullerenes and nanotubes as building blocks Particularly promising was the theory that the chemical properties of fullerenes and certain derivatives made them likely candidates for anticancer drugs inhibitors of viruses such as HIV or even as anti bacterials Their cytotoxicity can also be controlled by specific circumstances In addition the functionalization of nanotubes has not only produced relatively simple derivatives but also complex hybrids with biological macromolecules which show unique supramolecular architecture and which are promising in many medical applications The application of fullerenes and nanotubes in medicine is at the frontier of our knowledge thus the work in this field represents the basis for future novel developments

**Nanomaterials Handbook** Yury Gogotsi, 2017-08-09 This title features 11 new chapters unique to this edition including chapters on grain boundaries in graphene 2D metal carbides and carbonitrides mechanics of carbon nanotubes and nanomaterials biomedical applications oxidation and purification of carbon nanostructures sintering of nanoceramics hydrothermal processing nanofibers and nanomaterials safety It offers a comprehensive approach with a focus on inorganic and carbon based nanomaterials including fundamentals applications synthesis and characterization This book also provides a unique angle from the nanomaterial point of view on application synthesis and characterization not found in any other nanomaterials book on the market     *Fragments of Fullerenes and Carbon Nanotubes* Marina A. Petrukhina, Lawrence T. Scott, 2011-11-01 This book is the first of its kind to reflect upon the intense and rapidly growing interest in open geodesic polyaromatic molecules specifically focusing on their synthesis and reactivity in metal binding reactions The book broadly covers all aspects related to the fullerene fragment chemistry current synthetic techniques description of the available members of this new family which has grown to more than two dozens members with none being available commercially molecular geometry and trends in the solid state packing as well as extensions into physical properties and new buckybowl based molecules and materials It covers fundamental research related to a new class of hydrocarbons namely open geodesic polyarenes that map onto the surfaces of fullerenes and referred to as fullerene fragments or buckybowls

**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.

**Organic Nanomaterials** Tomas Torres, Giovanni Bottari, 2013-08-05 Discover a new generation of organic nanomaterials and their applications. Recent developments in nanoscience and nanotechnology have given rise to a new generation of functional organic nanomaterials with controlled morphology and well-defined properties which enable a broad range of useful applications. This book explores some of the most important of these organic nanomaterials describing how they are synthesized and characterized. Moreover, the book explains how researchers have incorporated organic nanomaterials into devices for real world applications. Featuring contributions from an international team of leading nanoscientists, *Organic Nanomaterials* is divided into five parts. Part One introduces the fundamentals of nanomaterials and self-assembled nanostructures. Part Two examines carbon nanostructures from fullerenes to carbon nanotubes to graphene reporting on properties, theoretical studies and applications. Part Three investigates key aspects of some inorganic materials: self-assembled monolayers, organic field effect transistors and molecular self-assembly at solid surfaces. Part Four explores topics that involve both biological aspects and nanomaterials such as biofunctionalized surfaces. Part Five offers detailed examples of how organic nanomaterials enhance sensors and molecular photovoltaics. Most of the chapters end with a summary highlighting the key points. References at the end of each chapter guide readers to the growing body of original research reports and reviews in the field. Reflecting the interdisciplinary nature of organic nanomaterials, this book is recommended for researchers in chemistry, physics, materials science, polymer science and chemical and materials engineering. All readers will learn the principles of synthesizing and characterizing new organic nanomaterials in order to support a broad range of exciting new applications.

**Polyarenes II** Jay S. Siegel, Yao-Ting Wu, 2014-11-25 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.

**Nanomedicine, Volume I** Robert A. Freitas, 2024-12-06 Molecular nanotechnology has been defined as the three-dimensional positional control of

molecular structure to create materials and devices to molecular precision The human body is comprised of molecules hence the availability of molecular nanotechnology will permit dramatic progress in human medical services More than just an extension of molecular medicine nanomedicine will employ molecular machine systems to address medical problems and will use molecular knowledge to maintain and improve human health at the molecular scale Nanomedicine will have extraordinary and far reaching implications for the medical profession for the definition of disease for the diagnosis and treatment of medical conditions including aging for our very personal relationships with our own bodies and ultimately for the improvement and extension of natural human biological structure and function This book will be published in three volumes over the course of several years Readers wishing to keep up to date with the latest developments may visit the nanomedicine website maintained by the Foresight Institute <http://foresight.org/Nanomedicine/index.html>      *Supramolecular Chemistry - Fundamentals and Applications* Katsuhiko Ariga, Toyoki Kunitake, 2006-05-22 The fundamentals of supramolecular chemistry to the latest developments on the subject are covered by this book It sets out to explain the topic in a relatively easy way The basic concepts of molecular recognition chemistry are included Molecules with fascinating shapes and functions such as fullerenes carbon nanotubes dendrimers rotaxane and catenane and molecular assemblies are also explained Thereafter applications of supermolecules to nanotechnology are introduced with many examples of molecular devices The last part of the book describes biological supermolecules and their mimics Though simply explained undergraduate and graduate students in Chemistry will be able to use aspects of this work as an advanced textbook

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