

TOPICS IN CURRENT CHEMISTRY

262

Volume Editor T.R. Kelly

# Molecular Machines

 Springer

# Molecular Machines Topics In Current Chemistry

**American Chemical Society**



## **Molecular Machines Topics In Current Chemistry:**

*Molecular Machines and Motors* Alberto Credi, Serena Silvi, Margherita Venturi, 2014-09-30 *Molecular Machines* T. Ross Kelly, 2005-12-20 The chapters in this volume describe bottom up strategies and chronicle cutting edge advances from several of the world's leading laboratories engaged in the development of molecular machines The Nobel Prize in Chemistry 2016 was awarded jointly to Jean Pierre Sauvage Sir J Fraser Stoddart and Bernard L Feringa for the design and synthesis of molecular machines Both Jean Pierre Sauvage and Sir J Fraser Stoddart have also contributed to this book **Macrocyclic and Supramolecular Chemistry** Reed M. Izatt, 2016-08-01 This book commemorates the 25th anniversary of the International Izatt Christensen Award in Macrocyclic and Supramolecular Chemistry The award one of the most prestigious of small awards in chemistry recognizes excellence in the developing field of macrocyclic and supramolecular chemistry *Macrocyclic and Supramolecular Chemistry How Izatt Christensen Award Winners Shaped the Field* features chapters written by the award recipients who provide unique perspectives on the spectacular growth in these expanding and vibrant fields of chemistry over the past half century and on the role of these awardees in shaping this growth During this time there has been an upsurge of interest in the design synthesis and characterization of increasingly more complex macrocyclic ligands and in the application of this knowledge to understanding molecular recognition processes in host guest chemistry in ways that were scarcely envisioned decades earlier In October 2016 Professor Jean Pierre Sauvage and Sir J Fraser Stoddart author for chapter 22 Contractile and Extensile Molecular Systems Towards Molecular Muscles by Jean Pierre Sauvage Vincent Duplan and Frédéric Niess and 20 Serendipity by Paul R McGonigal and J Fraser Stoddart respectively were awarded the Nobel Prize in Chemistry alongside fellow Wiley author Bernard Feringa for the design and synthesis of molecular machines *Macrocycles* Frank Davis, Séamus Hignson, 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

**Handbook of Nanofabrication**, 2010-05-25 Many of the devices and systems used in modern industry are becoming progressively smaller and have reached the nanoscale domain Nanofabrication aims at building nanoscale structures which can act as components devices or systems in large quantities at potentially low cost Nanofabrication is vital to all nanotechnology fields especially for the realization of nanotechnology that involves the traditional areas across engineering and science Includes chapters covering the most important Nanofabrication techniques which aids comprehensive understanding of the latest manufacturing technologies encountered in the field of nano level manufacturing which is essential for preparing for advanced study and application in nanofabrication techniques by enabling thorough understanding of the entire nanofabrication process as it applies to advanced electronic and related manufacturing technologies Each chapter covers a nanofabrication technique comprehensively which allows the reader to learn to produce nanometer level products as well as collect process and analyze data improve process parameters and how to assist engineers in research development and manufacture of the same Includes contributions from recognized experts from around the globe making the reader aware of variations in similar techniques applied in different geographical locations and is better positioned to establish all possible global applications

**Comprehensive Nanoscience and Technology**, 2010-10-29 From the Introduction Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity With technical advances in a variety of nanoscale fabrication and manipulation technologies the whole topical area is maturing into a vibrant field that is generating new scientific research and a burgeoning range of commercial applications with an annual market already at the trillion dollar threshold The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum nanophotonic and nanoelectromechanical effects Moreover researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter Surface phenomena also gain a greatly increased significance even the well known link between chemical reactivity and surface to volume ratio becomes a major determinant of physical properties when it operates over nanoscale dimensions Against this background this comprehensive work is designed to address the need for a dynamic authoritative and readily accessible source of information capturing the full breadth of the subject Its six volumes covering a broad spectrum of disciplines including material sciences chemistry physics and life sciences have been written and edited by an outstanding team of international experts Addressing an extensive cross disciplinary audience each chapter aims to cover key developments in a scholarly readable and critical style providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields The work focuses on the major classes of nanomaterials in terms of

their synthesis structure and applications reviewing nanomaterials and their respective technologies in well structured and comprehensive articles with extensive cross references It has been a constant surprise and delight to have found amongst the rapidly escalating number who work in nanoscience and technology so many highly esteemed authors willing to contribute Sharing our anticipation of a major addition to the literature they have also captured the excitement of the field itself in each carefully crafted chapter Along with our painstaking and meticulous volume editors full credit for the success of this enterprise must go to these individuals together with our thanks for largely adhering to the given deadlines Lastly we record our sincere thanks and appreciation for the skills and professionalism of the numerous Elsevier staff who have been involved in this project notably Fiona Geraghty Megan Palmer and Greg Harris and especially Donna De Weerd Wilson who has steered it through from its inception We have greatly enjoyed working with them all as we have with each other

*Immobilisation of DNA on Chips: DNA adsorption on carbonaceous materials* S. Alegret, 2005-11-03 M I Pividori S Alegret  
DNA Adsorption on Carbonaceous Materials F Luderer U Walschus Immobilization of Oligonucleotides for Biochemical Sensing by Self Assembled Monolayers Thiol Organic Bonding on Gold and Silanization on Silica Surfaces Y Okahata T Kawasaki Preparation and Electron Conductivity of DNA Aligned Cast and LB Films from DNA Lipid Complexes A del Campo I J Bruce Substrate Patterning and Active Strategies for DNA Chip Fabrication D V Nicolau P D Sawant Scanning Probe Microscopy Studies of Surface Immobilised DNA Oligonucleotide Molecules A Guiseppi Elie L Lingerfelt Impedimetric Detection of DNA Hybridization Towards Near Patient DNA Diagnostics Chemistry and Industry ,2001 **Chimie Pure Et Appliquée** ,2012 **The Nature of the Mechanical Bond** Carson J. Bruns, J. Fraser Stoddart, 2016-11-07 The story is told by THE inventor pioneer master in the field and is accompanied by amazing illustrations it will become an absolute reference and a best seller in chemistry Alberto Credi the great opus on the mechanical bond A most impressive undertaking Jean Marie Lehn Congratulations to co author J Fraser Stoddart a 2016 Nobel Laureate in Chemistry In molecules the mechanical bond is not shared between atoms it is a bond that arises when molecular entities become entangled in space Just as supermolecules are held together by supramolecular interactions mechanomolecules such as catenanes and rotaxanes are maintained by mechanical bonds This emergent bond endows mechanomolecules with a whole suite of novel properties relating to both form and function They hold unlimited promise for countless applications ranging from their presence in molecular devices and electronics to their involvement in remarkably advanced functional materials The Nature of the Mechanical Bond is a comprehensive review of much of the contemporary literature on the mechanical bond accessible to newcomers and veterans alike Topics covered include Supramolecular covalent and statistical approaches to the formation of entanglements that underpin mechanical bonds in molecules and macromolecules Kinetically and thermodynamically controlled strategies for synthesizing mechanomolecules Chemical topology molecular architectures polymers crystals and materials with mechanical bonds The stereochemistry of the mechanical bond mechanostereochemistry including the novel

types of dynamic and static isomerism and chirality that emerge in mechanomolecules Artificial molecular switches and machines based on the large amplitude translational and rotational motions expressed by suitably designed catenanes and rotaxanes This contemporary and highly interdisciplinary field is summarized in a visually appealing image driven format with more than 800 illustrations covering both fundamental and applied research The Nature of the Mechanical Bond is a must read for everyone from students to experienced researchers with an interest in chemistry's latest and most non canonical bond

Dendrimers and Dendrons George Richard Newkome, Charles N. Moorefield, Fritz Vögtle, 2001 What's new in dendrimer research Just as these fascinating giant molecules are continuing to ramify new perspectives and challenges continue to emerge This bestseller on dendritic molecules discusses the latest developments in the synthesis and application of these macromolecules It gives a comprehensive up to date account of the topic from the historical overview and theoretical background up to the most recent achievements Having shaped this scientific field the authors are able to brilliantly combine the basic principles with a wealth of more advanced information The optimal presentation of the structural features of dendrimers helps readers to quickly understand even sophisticated syntheses For special synthetic problems the well selected detailed list of references allows easy access to further literature This monograph will undoubtedly prove to be of interest for both beginners and advanced scientists in organic and pharmaceutical chemistry as well as material science

**Proceedings of the National Academy of Sciences of the United States of America** National Academy of Sciences (U.S.), 2006

*Bulletin of the Chemical Society of Japan* Nihon Kagakkai, 2007

**Adaptive Systems in Drug Design** Gisbert Schneider, Sung-Sau So, 2003 Major concepts in the field of drug design are described in this book with a strong focus on complex adaptive systems Special emphasis is placed on neural network applications and evolutionary algorithms The book is meant to complement a text on computational chemistry and bioinformatics and to present some new challenging ideas A conceptual framework is presented for the use of adaptive systems and evolutionary algorithms then the concept of chemical space is discussed and numerous examples of algorithms for classical unsupervised projection methods are given The use of evolutionary algorithms and artificial neural networks in quantitative structure activity relationships is discussed and the drug likeness concepts is explained A final chapter examines the utility of evolutionary method in de novo molecular design Schneider teaches cheminformatics at Johann Wolfgang Goethe University in Germany So is affiliated with F Hoffman La Roche Inc Annotation copyrighted by Book News Inc Portland OR

**Current Literature on Science of Science**, 1992

*Inorganic Biochemistry* Egon T. Degens, Douglas Dalzell Perrin, Werner A. P. Luck, 1976

Stereochemistry F. Vögtle, E. Weber, 1984-10-01 With contributions by numerous experts

**Journal** American Chemical Society, 2004

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