

ADVANCES IN
DENDRITIC MACROMOLECULES

Editor: GEORGE R. NEWKOME

Volume 3 • 1996

Advances In Dendritic Macromolecules

Nihon Kagakkai



Advances In Dendritic Macromolecules:

Advances in Dendritic Macromolecules G.R. Newkome, 1995-12-08 The series *Advances in Dendritic Macromolecules* aims to cover the synthetic as well as chemical aspects of this expanding field the chemistry to and supramolecular chemistry of dendritic or cascade supermolecular compounds In Chapter 1 of this volume Hawker and Wooley delineate the convergent growth approach to dendrimers then relate their three dimensional architectures to different block polymers In Chapter 2 Moors and Vögtle describe Professor Vögtle's initial cascade molecules via the repetitive strategy then expand his original concepts of its application by others and lastly delineate the synthesis of a new series of tosylamide cascades They also demonstrate the utility of his original Michael addition reduction procedure by its application to differ cores Chapter 3 composed by Professor Engel describes ionic dendrimers which incorporated an internal transition metal center as well as his work based on ammonium and phosphonium centers In Chapter 4 Mathias and Carothers review recent studies on silicon based dendrimers and hyperbranched polymers Chapter 5 by Kim describes the preparation and utility of hyperbranched aromatic polymers Lastly in Chapter 6 Escamilla reviews the historical as well as recent examples of ionic and nonionic bolaamphiphiles

Advances in Dendritic Macromolecules G.R. Newkome, 1994-08-01 The series *Advances in Dendritic Macromolecules* aims to cover the synthesis and supramolecular chemistry of dendritic or cascade super molecules as well as their less perfect hyperbranched cousins In volume 1 of the series Chapter 1 presents an overview of the current synthetic methodology available through mid 1993 for the preparation of cascade dendritic macromolecules Chapter 2 deals with the pioneering work of and by Professor Moore and his group in the construction of stiff dendritic macromolecules based on phenylacetylenes The preparation and properties of monodisperse aromatic dendrimers by Neenan Miller and collaborators are reviewed in Chapter 3 Chapter 4 describes work in the generation of high spin polyarylmethyl polyradicals To address one of the serious retrieval and descriptive problems associated with these specific polymers in Chapter 5 Baker and Young present a systematic nomenclature for cascade dendritic polymers

Advances in Organometallic Chemistry Pedro J. Perez, 2020-06-06 *Advances in Organometallic Chemistry* Volume 74 the latest release in this longstanding serial is known for its comprehensive coverage of topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more It is ideal for a wide range of researchers involved in organometallic chemistry with this updated release including chapters on Metal dendrimers used in biomedical applications Sigma bond activation reactions induced by unsaturated osmium IV complexes with bulky phosphines Base metal pincer complexes and more Contains contributions from leading authorities in the field of organometallic chemistry Covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more Informs and updates readers on the latest developments in the field Carefully edited to provide easy to read material

Dendrimers II Fritz Vögtle, 2003-07-01 The second volume on dendrimers is again written by pioneers in the field Their contributions illuminate the aspects of dendrimers mentioned in the subtitle and also touch on areas beyond

chemistry namely material sciences as well as biological medicinal analytical and nano aspects **Dendrimers** Fritz Vögtle, 2003-09-05 Dendrimers are a class of highly branched molecules that combine the properties of polymers and small discrete molecules One classified among the exotic molecules of chemistry dendrimers have attracted considerable attention in recent years as their unique host guest properties and their capability of being functionalized in the periphery as well in the core have led to new materials with a great potential for applications This volume presents the state of art in this blossoming area written by pioneers in the fields Covering the synthetic supramolecular stereochemical host guest and polymer chemistry of dendritic and hyperbranched molecules this volume explains both theoretical and practical aspects including chirality reactivity mechanism material properties and biological relevance **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 **Comprehensive Coordination**

Chemistry II J. A. McCleverty, T.J. Meyer, 2003-12-03 Comprehensive Coordination Chemistry II CCC II is the sequel to what has become a classic in the field Comprehensive Coordination Chemistry published in 1987 CCC II builds on the first and surveys new developments authoritatively in over 200 newly commissioned chapters with an emphasis on current trends in biology materials science and other areas of contemporary scientific interest *Springer Handbook of Inorganic Photochemistry* Detlef Bahnemann, Antonio Otavio T. Patrocínio, 2022-06-25 The handbook comprehensively covers the field of inorganic photochemistry from the fundamentals to the main applications The first section of the book describes the historical development of inorganic photochemistry along with the fundamentals related to this multidisciplinary scientific field The main experimental techniques employed in state of art studies are described in detail in the second section followed by a third section including theoretical investigations in the field In the next three sections the photophysical and photochemical properties of coordination compounds supramolecular systems and inorganic semiconductors are summarized by experts on these materials Finally the application of photoactive inorganic compounds in key sectors of our society is highlighted The sections cover applications in bioimaging and sensing drug delivery and cancer therapy solar energy conversion to electricity and fuels organic synthesis environmental remediation and optoelectronics among others The

chapters provide a concise overview of the main achievements in the recent years and highlight the challenges for future research This handbook offers a unique compilation for practitioners of inorganic photochemistry in both industry and academia

Advancements in Nanomaterials for Energy Conversion and Storage Piyush Kumar Sonkar,Vellaichamy Ganesan,2024-11-29 In this book readers will find an exhaustive examination of the latest advancements in nanomaterials covering their synthesis characterization and utilization in energy storage and conversion Additionally the text delves into the diverse applications of these nanomaterials across various fields such as supercapacitors fuel cells biofuel cells solar cells batteries and organic electronics The discussion also encompasses the challenges faced historical context and future outlooks within this rapidly evolving domain Features Cutting edge insights Stays abreast of the latest breakthroughs in nanomaterial science with a succinct review of advanced materials tailored for energy storage applications Developmental journey Traces the evolution of energy storage materials from their inception to their current state of the art Versatile applications Explores the diverse applications of nanomaterials in energy storage spanning supercapacitors fuel cells biofuel cells solar cells batteries and beyond Visual aids Enhances readers understanding with key figures and tables spotlighting the intricate applications of various nanomaterials Geared toward researchers and graduate students in chemical engineering chemical sciences nanomaterials and energy engineering conversion this book serves as an indispensable resource for those seeking to push the boundaries of nanotechnology in the pursuit of sustainable energy solutions

Modern Acetylene Chemistry Peter J. Stang,François Diederich,2008-09-26 This comprehensive handbook presents the full potential of modern acetylene chemistry from organic synthesis through materials science to bioorganic chemistry K Houk H Hopf P Stang K M Nicholas N Schore M Regitz K C Nicolaou R Gleiter L Scott R Grubbs H Iwamura J Moore and F Diederich internationally renowned authors introduce the reader in a didactically skilful manner to the state of the art in alkyne chemistry Emphasis is placed on presenting carefully selected and instructive examples as well as essential references to the original literature Special benefits Each chapter is rounded off by useful experimental procedures

Dendritic Molecules George R. Newkome,Charles N. Moorefield,Fritz Vögtle,1996-07-25 G R Newkome C N Moorefield F Vogtle Dendritic Molecules Concepts Syntheses Perspectives The first book on dendrimers The authors pioneers in this scientific field describe basic principles and current developments in the rapidly evolving field of dendrimer research All aspects of the subject are covered the authors provide a historical overview theoretical background and discussions of the synthesis and applications of dendrimers The book thus spans organic chemistry and more application orientated disciplines like material science and pharmaceutical chemistry The excellent detailed list of references further increases the value of the book The optimal presentation of the structural formulas of dendrimers highly symmetrical giant molecules helps the reader understand the sophisticated synthesis quickly This book will set the standard for further monographs on this subject

Phosphorus Ligands in Asymmetric Catalysis Armin Börner,2008

New Serial Titles ,1996 A union list of serials commencing publication after Dec 31 1949 Current

Serials Received British Library. Document Supply Centre,2005 Bulletin of the Chemical Society of Japan Nihon Kagakkai,1999 Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004 **Molecular Devices and Machines** Vincenzo Balzani,Margherita Venturi,Alberto Credi,2003-04-11 Electric Cables Handbook provides a comprehensive and substantial coverage of all types of energy cables from wiring and flexible cables for general use to distribution transmission and submarine cables It includes information on materials design principles installation operating experience and standards and several appendices contain extensive data tables on commonly used cable types and their properties Electric Cables Handbook is an extensive source of up to date and essential information for electrical engineers contractors supply authorities and cable manufacturers *Macromolecular Chemistry and Physics* ,2006 *Periodical Title and Abbreviation by Abbreviation* Leland G. Alkire,Cheryl Westerman-Alkire,2006 Volume 1 is a comprehensive dictionary with more than 230 000 entries It covers periodicals from a wide variety of subjects including science social sciences humanities law medicine religion library science engineering education business and art Volume 1 lists in a single in letter by letter sequence abbreviations commonly used for periodicals together with their full titles Dendrimer-Based Nanotherapeutics Prashant Kesharwani,2021-04-14 Dendrimer Based Nanotherapeutics delivers a comprehensive resource on the use of dendrimer based drug delivery Advances in the application of nanotechnology in medicine have given rise to multifunctional smart nanocarriers that can be engineered with tunable physicochemical characteristics to deliver one or more therapeutic agent s safely and selectively to cancer cells including intracellular organelle specific targeting This book compiles the contribution of dendrimers in the field of nanotechnology to aid researchers in exploring dendrimers in the field of drug delivery and related applications This book covers the history of the area to the most recent research The starting chapter covers detailed information about basic properties about dendrimers i e properties nomenclature synthesis methods types characterization of dendrimers safety and toxicity issues of dendrimers Further chapters discuss the most recent advancements in the field of dendrimer i e dendrimer drug conjugates PEGylated dendrimer dendrimer surface engineering dendrimer hybrids dendrimers as solubility enhancement in targeting and delivery of drugs as photodynamic therapy in tissue engineering as imaging contrast agents as antimicrobial agents advances in targeted dendrimers for cancer therapy and future considerations of dendrimers Dendrimer Based Nanotherapeutics will help the readers to understand the most recent progress in the field of dendrimer based research suitable for pharmaceutical scientists advanced students and those working in related healthcare fields Discusses various routes such as oral pulmonary transdermal delivery and local administration of dendrimer delivery of bioactive Explores a wide range of applications of dendrimer based drug delivery using the latest advancements in nanomedicine Provides the most recent research on dendrimers as well as context and background providing a useful resource for all levels of researcher

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